

1952

Soybean
BLUE BOOK





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The
Soybean
**BLUE
BOOK**
1952

Published by the

AMERICAN SOYBEAN ASSOCIATION
(Organized 1920)

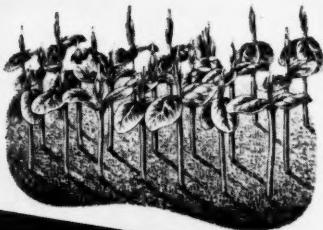
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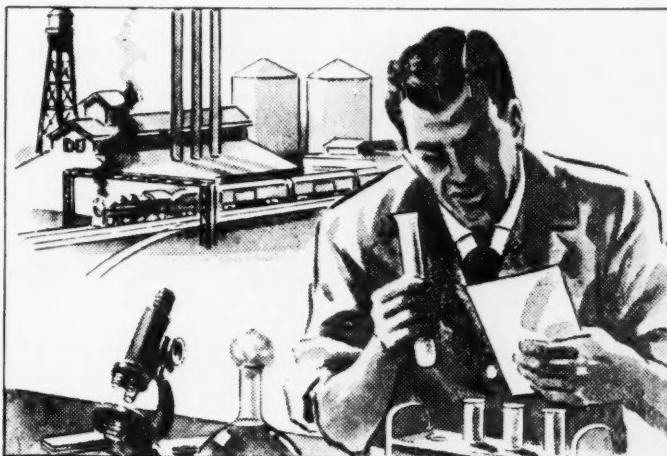


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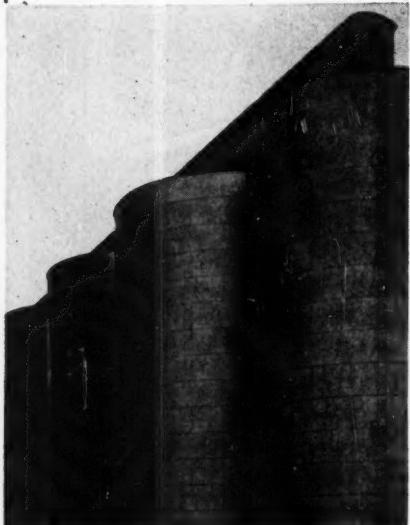
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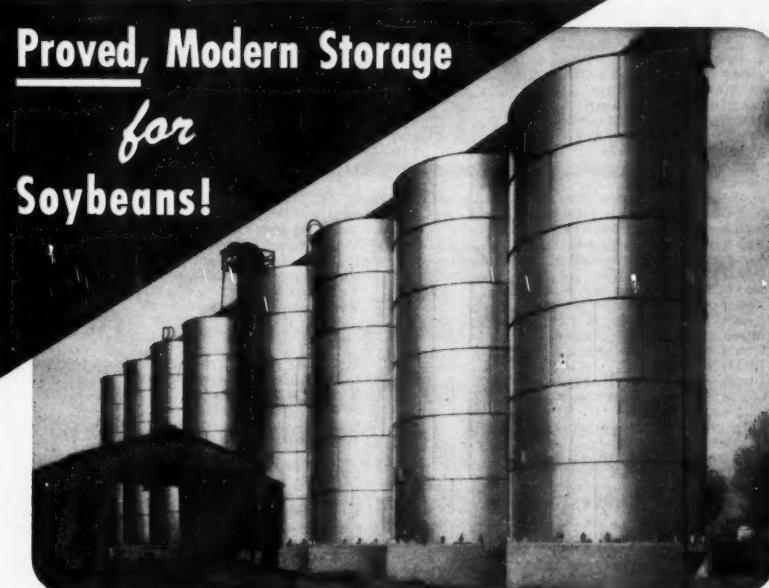
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The publishers have made every effort to make listings complete and accurate, but they cannot be held responsible for errors or omissions.

Tables on production, utilization and prices of soybeans and soybean products were compiled by Edwin G. Strand, agricultural economist, division of farm management and costs, Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C.

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Organized 1920; incorporated Feb. 28, 1946.
Executive office—Hudson, Iowa.

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ACTIVITIES

The American Soybean Association is the non-profit over-all organization of the soybean industry. It is officered by soybean growers in the states where production is heaviest. Its activities include the following:

FIGHTS YOUR LEGISLATIVE BATTLES. The organization promotes new markets for soybeans, protects price relationships, removes legislative restrictions, and secures appropriations for research work on varieties, diseases, pests, . . . etc.

Countless hours are spent each year by Association officers in Washington and state capitals in efforts to protect the interests of soybean producers in legislative affairs.

PROMOTES MARKETS for soybeans and soy products. The Association through contacts with both the domestic and foreign markets encourages the usage of soybeans and soy products in human and animal nutrition as well as industry.

HOLDS ANNUAL CONVENTIONS with the nation's outstanding soybean authorities as speakers. Its resolutions adopted there serve as guides for the Association during the year.

ENCOURAGES YIELD CONTESTS through which comparisons of growing practices and varieties between counties and states become possible.

ANSWERS YOUR QUESTIONS. The executive office of the American Soybean Asso-

ciation at Hudson, Iowa, serves as a clearing house of information for the industry, answering many thousands of questions that come by postcard, letter and telephone each year.

FINANCES

The American Soybean Association in the past has been financed entirely by memberships and by contributions from interested people. But with the expansion of its activities required by present day conditions a much broader, more secure financial base is needed.

A new finance program was launched in 1948 and is gradually being expanded to cover all main soybean growing areas. Under it growers are asked to contribute voluntarily 1/5c per bushel from their harvested crop, with the elevators where they sell their soybeans acting as collecting agencies. Soybean processors are also asked to pay into the promotion fund 50c per thousand bushels from their monthly crush.

To date field work has been set up only in limited areas but is being expanded as rapidly as facilities permit.

PUBLICATIONS

The *Soybean Digest* is the only magazine in America devoted to soybeans. Published monthly by the Association it goes to all members of the American Soybean Association. The *Soybean Blue Book* is the annual directory of the industry.

MEMBERSHIPS

Active Membership in the American Soybean Association is open to individuals on payment of annual dues of \$3.00 and includes subscription to the *Soybean Digest*.

Associate Membership is open to business organizations, corporations, partnerships and other agencies interested in the welfare of the soybean industry at a cost of \$10.00 per year, including one subscription to the *Soybean Digest*.

ONTARIO ASSOCIATIONS

Ontario Soya Bean Marketing Committee. H. Pugh, Chatham, Ontario, chairman; K. A. Standing, Essex, Ontario, Essex County agricultural representative, Essex, Ontario, secretary. Purpose, to promote the soybean industry in Ontario and to regulate marketing. The Ontario marketing board is selected from this committee.

Ontario Soybean Committee. G. P. McRosie, field husbandry department, Ontario Agricultural College, Guelph, Ontario, chairman; and George E. Jones, field husbandry department, Ontario Agricultural College, Guelph, Ontario, secretary.

Sponsored by the Ontario Department of Agriculture.

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Vice President and Chairman of Executive Committee—E. A. Cayce.

Secretary—W. L. Shellabarger.

Treasurer—H. A. Abbott.

Regular membership in the National Soybean Processors Association is limited to individuals, firms or corporations regularly engaged in the actual processing of soybeans. The Association now has 84 members who regularly process more than 80 percent of the soybeans crushed in the United States.

Recently the constitution of the Association was altered to provide for associate memberships. Firms which are consumers of soybean oil and/or soybean oil meal now are eligible for associate membership. A number of refiners and mixed feed manufacturers are now associate members of the Association.

Through this organization, equitable trading rules have been developed which have admirably and fairly served the buyers and sellers of soybean products during the years in which the soybean industry has made such remarkable growth.

The intense research activity fostered by the Association and its members has played an important part in placing the industry on the high plane which it enjoys today. The Association's and members' promotional efforts have established a place for soybean products in highly competitive fields. Through this research and promotional activity the products of soybeans have become standard essentials in our food, feed and industrial markets.

In March of 1948 the Association launched a national soybean crop improvement program with J. W. Calland of Decatur, Ind., as director.

Since the inauguration of the program, some 210,000 copies of the booklet, *Soybean Farming*, have been distributed. The booklet was revised during 1951 and 25,000 of the new edition have already been distributed. A publication, *Soybean News*, issued four times a year, is being sent to a mailing list of over 18,000. The latest activity has been the production of a sound color 16-mm movie entitled, *Soybeans—the Feature Story*. This film runs 27 minutes. It is available from the American Soybean Association, Hudson, Iowa, the university film libraries in the principal soybean producing states and from the Modern Talking Picture Service, Inc., 142 E. Ontario St., Chicago 11, Ill.

FOR EARLIER BEAN HARVESTS DEFOLIATE WITH *AERO Cyanamid* SPECIAL GRADE

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Organized 1936.

Address: 828 Barr Bldg., Washington 6, D. C.

Chairman—H. A. Olendorf.

Vice chairman—Wilfrid B. Cox.

Representing American Soybean Association—George M. Strayer.

Chairman of research—Dr. J. W. Hayward.

Chairman of nutrition—Dr. C. Kenneth Shuman.

Secretary—Douglas Dies.

Production technology—E. A. Buelens.

Consultant—Edward J. Dies.

This Council, which represents the interests of both the manufacturers of soya food products and the growers of soybeans, is primarily interested in scientific research, new product studies, refinement of methods, and developments of new markets.

During the war and postwar periods, this group was the channel through which the industry assisted the government in bringing about public consciousness of the high food value and comparative low cost of soy protein products. With helpful advice from government technologists, standards were adopted. At government request substantial increases were made in the industry's productive capacity.

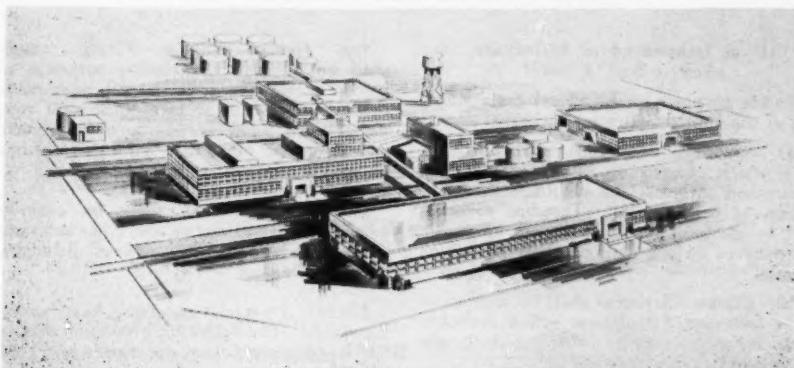
In recent years there has been large usage of soy flour products in various parts of the world. American usage has increased. There has been a growing realization, both in public and in government, that edible soy protein is the key to providing low-cost protein to millions whose diets are dangerously low in proteins.

In the past few years various types of scientific research on soy flour have been or are being carried on, in the following institutions: the University of Illinois, Purdue University, the University of Minnesota, Kansas State College, Pittsburgh University, Mid-West Laboratories, the U. S. Regional Laboratories, and elsewhere.

This work is far more than matched by the studies conducted in the large laboratories of private companies.

Today soy flour is used in many food articles including:

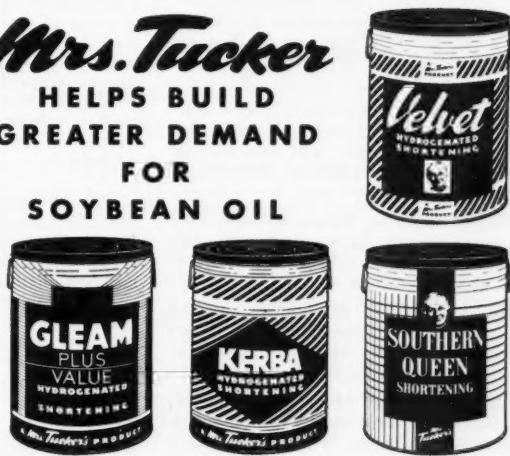
Bakery products, breakfast foods, candies, chocolate, diabetic foods, health drinks, ice cream cones, ice cream powder, infant foods, macaroni and spaghetti products, meat products, prepared mixes and pet foods.



Sketch of Mrs. Tucker's Jacksonville, Illinois, Plant



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FOR
SOYBEAN OIL



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Aerial View of Mrs. Tucker's Sherman, Texas, Plant



OFFICIAL STANDARDS FOR SOYBEANS*

(U. S. Department of Agriculture,
effective Sept. 1, 1949)

For the purposes of the official grain standards of the United States for soybeans:

(a) *Soybeans*. Soybeans shall be any grain which consists of 50 percent or more of threshed soybeans and not more than 10.0 percent of other grains. Threshed soybeans shall be whole or broken soybeans which are not removed in the determination of foreign material.

(b) *Classes*. Soybeans shall be divided into the following five classes: yellow soybeans, green soybeans, brown soybeans, black soybeans, and mixed soybeans.

(c) *Yellow soybeans*. Yellow soybeans shall be any soybeans with yellow or green seed coats, which in cross section are yellow or have a yellow tinge, and may include not more than 10.0 percent of soybeans of other classes.

(d) *Green soybeans*. Green soybeans shall be any soybeans with green seed coats which in cross section are green, and may include not more than 10.0 percent of soybeans of other classes.

(e) *Brown soybeans*. Brown soybeans shall be any soybeans with brown seed coats, and may include not more than 10.0 percent of soybeans of other classes.

(f) *Black soybeans*. Black soybeans shall be any soybeans with black seed coats, and may include not more than 10.0 percent of soybeans of other classes.

(g) *Mixed soybeans*. Mixed soybeans shall be any mixture of soybeans which does not meet the requirements for the classes of yellow soybeans, green soybeans, brown soybeans, or black soybeans. Bicolored soybeans shall be classified as mixed soybeans.

(h) *Grades and grade designations*. Grades shall be the numerical grades, sample grade, and special grades provided for in §26.603.

(i) *Bicolored soybeans*. Bicolored soybeans shall be any soybeans with seed coats of two colors, one of which is black or brown.

(j) *Splits*. Splits shall be pieces of soybeans.

(k) *Damaged kernels*. Damaged kernels shall be soybeans, pieces of soybeans, and kernels and pieces of kernels of other grains which are heat-damaged, sprouted, frosted, badly ground-damaged, badly weather-damaged, moldy, diseased, or otherwise materially damaged.

(l) *Other grains*. Other grains shall be barley, corn, flaxseed, grain sorghums, oats, rye, wheat, buckwheat, einkorn, emmer, Polish wheat, popcorn, poulard wheat, rice, spelt, sweet corn, and wild oats.

(m) *Foreign material*. Foreign material shall be all matter, including soybeans and pieces of soybeans, which will pass readily through a sieve 0.032 inch thick with round perforations 0.125 (8/64) inch in diameter, and all matter other than soybeans remaining on such sieve after sieving.

(n) *Stones*. Stones shall be concreted earthy or mineral matter and other substances of similar hardness that do not disintegrate readily in water.

§26.602 Principles governing application of standards. The following principles shall apply in determination of the classes and grades of soybeans:

(a) *Basis of determination*. Each determination of class, splits, and damaged kernels, shall be upon the basis of the grain when free from that part of foreign material which can be removed readily by the use of a sieve 0.032 inch thick with round perforations 0.125 (8/64) inch in diameter. All other determinations shall be upon the basis of the grain as a whole.

(b) *Percentages*. Percentages shall be upon the basis of weight.

(c) *Percentage of moisture*. Percentage of moisture shall be ascertained by the air oven and the method of use thereof described in Service and Regulatory Announcements No. 147 (revised August 1941), issued by the Agricultural Marketing Service (now Production and Marketing Administration) of the United States Department of Agriculture, or ascertained by any device and method which give equivalent results.

(d) *Percentage of splits*. The percentage of splits shall be expressed in whole percent and any fraction of a percent shall be disregarded.

(e) *Test weight per bushel*. Test weight per bushel shall be the weight per Winchester bushel, as determined by the testing apparatus and the method of use thereof described in Bulletin No. 1065, dated May 18, 1922, issued by the United States Department of Agriculture, or as determined by any device and method which give equivalent results.

§26.603. Grade requirements. The following grade requirements are applicable under these standards:

(a) *Numerical grades, sample grades, and grade requirements for all classes of soybeans*.

(b) *Special grades, special grade requirements, and special grade designations for all classes of soybeans—(1) Garlicky soybeans—*

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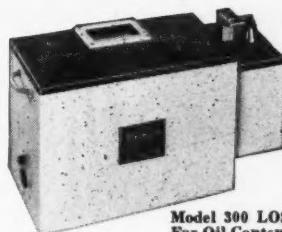
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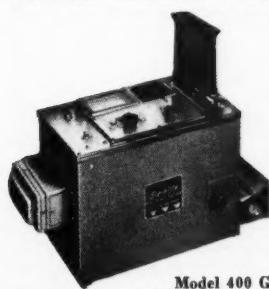
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OFFICIAL STANDARDS FOR SOYBEANS—(Continued)

(i) *Requirements.* Garlicky soybeans shall be soybeans which contain 5 or more garlic bulbets in 1,000 grams of soybeans.

(ii) *Grade designation.* Garlicky soybeans shall be graded and designated according to the grade requirements of the standards applicable to such soybeans if they were not garlicky, and there shall be added to and made a part of the grade designation the word "Garlicky."

(2) *Weevily soybeans*—(i) *Requirements.* Weevily soybeans shall be soybeans which are infested with live weevils or other live insects injurious to stored grain.

(ii) *Grade designation.* Weevily soybeans shall be graded and designated according to the grade requirements of the standards applicable to such soybeans if they were not weevily, and there shall be added to and made a part of the grade designation the word "Weevily."

*The specifications of these standards shall not excuse failure to comply with the provisions of the Federal Food, Drug, and Cosmetic Act (21 U. S. C. 301 et seq.).

Grade	Minimum test weight per bushel	Maximum limits of—			
		Moisture	Splits	Damaged kernels (soybeans and other grains)	Foreign material
No. 1 ¹	Pounds	Percent	Percent	Percent	Percent
56	13.0	10	2.0	2.0	
No. 2 ¹	54	14.0	20	3.0	3.0
No. 3 ¹	52	16.0	30	5.0	4.0
No. 4 ²	49	18.0	40	8.0	6.0

Sample grade: Sample grade shall be soybeans which do not meet the requirements for any of the grades from No. 1 to No. 4, inclusive; or which are musty, or sour, or heating; or which have any commercially objectionable foreign odor; or which contain stones; or which are otherwise of distinctly low quality.

The soybeans in grade No. 1 of the class Yellow Soybeans may contain not more than 1.0 percent, in grade No. 2 not more than 2.0 percent, and in grade No. 3 not more than 5.0 percent of Green, Black, Brown, or bicolored soybeans, either singly or in any combination.

¹Soybeans which are materially weathered shall not be graded higher than No. 4.

SOY FLOUR STANDARDS

	Full-Fat Soy Flour	Low-Fat Soy Flour	Defatted Soy Flour
Protein (Nx6.25)*	40.0% Min.	45.0% Min.	50.0% Min.
Protein (Nx5.7)*	36.5% Min.	41.0% Min.	45.0% Min.
Fat (Ether Extract)*	18.0% Min.	4.5% Min. 9.0% Max.	2.0% Max.
Fibre*	3.0% Max.	3.3% Max.	3.5% Max.
Moisture	8.0% Max.	8.0% Max.	8.0% Max.
Ash*	5.5% Max.	6.5% Max.	6.5% Max.

Screen—97% through No. 100 U. S. Standard Screen for each of the above.

*Moisture free basis.

Approved and adopted by the Soya Food Research Council.

DEFINITION

The products shall be processed from high quality, sound, clean, dehulled yellow soybeans as defined in the United States Grain Standards Act. The soybeans shall be subjected to a thorough initial cleaning operation that shall substantially remove all foreign material. Disagreeable flavors and odors shall be removed by

subjecting the soya material to adequate processing.

Soy flour shall be prepared and packaged under modern sanitary conditions.

The soy flour shall be free from burnt, musty, rancid or other undesirable flavors or odors; free from burnt, scorched, or grayish color; and free from insects, insect webbing, dirt or other extraneous matter.



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In 1952, the acreage is even larger than in 1950, when 13,291,000 acres were harvested for Soybeans, in addition to 2,117,000 acres grown for hay, pasture and fertilizer.



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U. S. DEPARTMENT OF AGRICULTURE

USDA agencies with relationship to soybeans (Washington 25, D. C., unless otherwise noted).

Bureau of Agricultural Economics

Division of Field Crop Statistics; Division of Statistical and Historical Research; Division of Farm Management and Costs.

Office of Foreign Agricultural Relations

International Commodities Branch; Fats and Oils Division.

Production and Marketing Administration

Grain Branch; Market News and Services Division; Seed Act Division, Beltsville, Md.; Agricultural Conservation Programs Branch.

Fats and Oils Branch.

Agricultural Research Administration

Bureau of Agricultural and Industrial Chemistry; Northern Regional Research Laboratory, Peoria, Ill., R. T. Milner, director; Southern Regional Research Laboratory, New Orleans, La., C. H. Fisher, director.

Bureau of Animal Industry; Animal Husbandry Division, Beltsville, Md.

Bureau of Dairy Industry; Division of Nutrition and Physiology, Beltsville, Md.

Bureau of Entomology and Plant Quarantine; Division of Cereal and Forage Insect Investigations.

Bureau of Human Nutrition and Home Economics; Food and Nutrition Division, Beltsville, Md.

Bureau of Plant Industry, Soils and Agricultural Engineering, Beltsville, Md.; Division of Cereal Crops and Diseases; M. G. Weiss, soybean project leader, Division of Forage Crops and Diseases; Division of Plant Exploration and Introduction; U. S. Regional Soybean Laboratory, Urbana, Ill., J. L. Carter, director.*

*See following for complete listing.

NORTHERN REGIONAL RESEARCH LABORATORY

Address: Peoria 5, Ill.

Director: R. T. Milner.

Assistant Director: H. E. Roethe.

Oil and Protein Division—Dr. J. C. Cowan, head.

Investigations are conducted on both the fundamental and practical aspects of the flavor stability of the oil, on the modification of soybean oil, meals, flour and protein for foods, and protective coatings and other industrial uses.

Analytical and Physical Division—Dr. Frederic R. Senti, head.

Research work on soybeans in this division consists of development of new and improved physical and chemical methods of analysis of soybeans and their products with principal attention to the oil. Liaison between the Northern Regional Research Laboratory and state experiment stations is also conducted by this division.

Fermentation Division—Dr. R. W. Jackson, head.

The soybean research of this division includes evaluations of soybean products and byproducts as nutritional supplements for microorganisms and utilized in fermentation processes. The division is interested also in fermented soybean products for food and has done considerable work on soya sauce.

Engineering and Development Division

—Dr. C. T. Langford, head; Dr. Hanns G. Maister, assistant head.

The soybean research of this division is conducted on a pilot-plant scale in its oilseed section. The work at present covers improvements in the refining of soybean oil for edible purposes, and the effect of processing variables on the nutritive value of soybean oil meal.

U. S. REGIONAL SOYBEAN LABORATORY

Address: 205 Davenport Hall, University of Illinois, Urbana, Ill.

Director: Carter, J. L.

Staff: Collins, Floyd L., chemist; Krober, Orland A., chemist; McAlister, Dean F., physiologist; Olsen, Robert D., breeder; Younger, Carolyn, secretary.

FIELD

**Adams, M. W., Agricultural Exp. Station, Brookings, S. Dak.

**Brown, Otto, Gulf Coast Substation, Fairhope, Ala.

**Gibson, P. G., Agricultural Exp. Station, Auburn, Ala.

**Gore, Ulys R., Agricultural Exp. Station, Experiment, Ga.

**Gray, John P., Agricultural Exp. Station, Baton Rouge, La.

**Hanway, Donald G., Agricultural Exp. Station, Lincoln 1, Nebr.

Hartwig, Edgar E., coordinator for Southern states, Delta Exp. Station, Stoneville, Miss.

**Harvey, Clark, Agricultural Exp. Station, College Station, Tex.

Johnson, Herbert W., Dept. of Agronomy, N. C. State College, Raleigh, N. C.

**Kramer, Herbert H., Agricultural Exp. Station, La Fayette, Ind.

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**O'Kelly, J. Fred, Agricultural Exp. Station, State College, Miss.

**Paden, William R., Agricultural Exp. Station, Clemson, S. C.

**Pettigrove, Herbert R., Agricultural Exp. Station, East Lansing, Mich.

Probst, Albert H., Agricultural Exp. Station, La Fayette, Ind.

**Saboe, Lewis C., Dept. of Agronomy, Ohio State University, Columbus, Ohio.

**Skold, L. N., Agricultural Exp. Station, Knoxville, Tenn.

**Smith, R. L. N., Florida Agricultural Exp. Station, Quincy, Florida.

**Smith, T. J., Agricultural Exp. Station, Blacksburg, Va.

*Stephens, James L., Coastal Plain Exp. Station, Tifton, Ga.

**Stoa, Theodore E., Agricultural Exp. Station, Fargo, N. Dak.

**Swift, Donald, Agricultural Exp. Station, Stillwater, Okla.

**Torrie, James H., Dept. of Agronomy, University of Wisconsin, Madison 6, Wis.

Weber, Charles R., Agronomy-Farm Crops, Iowa State College, Ames, Iowa.

**Zahnley, J. W., Dept. of Agronomy, Agr. Exp. Station, Manhattan, Kans.

*Part time with Soybean Laboratory.

**Collaborator without pay.

SOYBEAN DISEASE RESEARCH

Address: Beltsville, Md.

Kreitow, Kermit W., coordinator of all disease work in the Division of Forage Crops and Diseases.

Sherwin, H. S., Plant Industry Station.

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Allison, J. Lewis, Plant Pathology, Box 5297, N. C. State College, Raleigh, N. C.

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**Atkins, J. G., Agricultural Exp. Station, Baton Rouge, La.

Chamberlain, Donald W., Regional Soybean Laboratory, Urbana, Ill.

***Crall, James M., Dept. of Botany & Plant Path., Agri. Exp. Sta., Ames, Iowa.

Johnson, Howard W., Delta Exp. Station, Stoneville, Miss.

**Kernkamp, M. F., University Farm, Univ. of Minnesota, St. Paul 1, Minn.

**Lehman, S. G., Agricultural Exp. Station, Raleigh, N. C.

**Tucker, C. M., Agricultural Exp. Station, Columbia, Mo.

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TERMINOLOGY

Definitions and Product Descriptions for the Soybean Industry

SOYBEAN—The soybean is a legume the botanical name of which is *Glycine max* (L.) Merrill. It has been grown since prehistoric times in China and was first introduced into the United States early in the 19th century. The term "soybean" has been accepted as standard in the U. S. in preference to Oriental and other forms such as: soy bean, soy bean, soyabean and soja bean. It is incorrect to use the word "beans" when referring to soybeans.

SOYBEAN PROCESSOR—A man or firm who makes a business of removing oil from soybeans. The word "processor" has been adopted by the industry in preference to older terms applied to various branches of the vegetable oil milling industry, such as crushers, pressers and millers.

PROCESSES—Three processes are employed in the U. S. in removing soybean oil from soybeans. They are:

1. **Screw Press Process**—A continuous pressing process, at elevated temperatures, which utilizes a worm shaft continuously rotating within a pressing cylinder or cage to express the oil from soybeans after they have been crushed and properly dried. The term "Expeller" is copyrighted by the V. D. Anderson Co. of Cleveland, Ohio, as applying to the particular type of mechanical screw press which they manufacture. Therefore it is technically incorrect to refer to all screw presses as "Expellers" and to all screw press products as "expeller" products. The French Oil Mill Machinery

Co. of Piqua, Ohio, call their screw press the mechanical screw press.

2. **Solvent Extraction Process**—A process whereby flaked soybeans are leached or extracted with petroleum hydrocarbons, alcohols or organic solvents such as hydrocarbons or chlorinated hydrocarbons, to remove the oil. Ninety-five to ninety-eight percent of the oil in the soybeans is recovered by this process whereas the screw press and the hydraulic processes remove about 75 to 80 percent. This is the most recently developed process. The products are known in the trade as extracted products; for example, extracted soybean oil and extracted soybean oil meal. The Association of Feed Control Officials has recently ruled, however, that soybean oil meal processed in this manner for the feed trade shall be labeled "solvent extracted soybean oil meal." The term "new process" was formerly used to designate products of this process.

3. **Hydraulic Process**—An intermittent pressing operation carried out at elevated temperatures in a hydraulic press after the beans have been rolled into flakes and cooked. It is the oldest process employed in the vegetable oil milling industry. It is often referred to as the "old process" and its products such as oil cake and oil meal are often referred to as "old process" products.

SOYBEAN OIL—There are several types of soybean oil which might be broadly classified as follows:

1. **Crude Raw Soybean Oil**—This is sometimes correctly referred to as crude soybean oil. This product is the unrefined



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TERMINOLOGY—(Continued)

crude oil of any one of the three processes. It is customary to filter and/or settle the oil after it has come from the process, as the standard trade specifications exact this procedure.

There are three types of crude raw soybean oil:

- a. Crude extracted soybean oil.
- b. Crude screw press soybean oil.
- c. Crude hydraulic pressed soybean oil.

2. **Edible Refined Soybean Oil**.—As the name implies this is a refined soybean oil which has been subjected to special treatment for use in food products. While there are some innovations being introduced the conventional refining procedure for producing edible refined soybean oil is carried out in four steps. They are alkali refining, bleaching, winterizing and deodorizing. Edible refined soybean oils are further classified as salad oils and cooking oils, and are also used in the manufacture of a variety of mayonnaise, relish and sandwich spreads.

3. **Hydrogenated Soybean Oil**.—As the name implies, this product has been subjected to hydrogenation which results in changing a liquid oil to a plastic semisolid fat. Hydrogenated soybean oil is used in both the edible and technical fields.

4. **Technical Refined Soybean Oils—for the Technical Trade**.—There are a wide variety of oils in this group involving individual or combined processes which according to trade usage or technical re-

quirements may be broadly classified as follows:

- a. Water washed.
- b. Centrifuged, clarified and degummed.
- c. Acid refined.
- d. Alkali refined.
- e. Bleached.
- f. Kettle bodied or polymerized.
- g. Air blown or oxidized.
- h. Sulfonated.
- i. Chlorinated.
- j. Catalytic refined.
- k. Solvent refined: 1. Pittsburgh Plate Glass Co. patented process; 2. M. W. Kellogg Co., patented process (Solexol).
- l. Molecular distilled (Distillation Products Inc. patented process).

SOYBEAN FATTY ACIDS.—When the glycerine in soybean oil is split off by any method of hydrolysis, fatty acids are obtained which may be classified as follows according to the subsequent treatment to which they have been subjected:

- 1. Crude mixed soybean fatty acids.
- 2. Distilled soybean fatty acids.
- 3. Fractionally distilled soybean fatty acids (Armour & Co. patented process).
- 4. Solvent fractionated soybean fatty acids.
- 5. Low temperature crystallized soybean fatty acids.

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TERMINOLOGY—(Continued)

SOYBEAN SOAP STOCKS—Soap stock is the by-product that results from the alkali refining of soybean oil.

1. Soybean soap stock—contract grade should contain not less than 30% total fatty acid.

2. Acidulated soybean soap stock—contract grade should contain not less than 85% total fatty acid.

SOYBEAN LECITHIN—Soybean lecithin as offered to the trade is actually a mixture of lipid materials and consists of lecithin, cephalin, and inositol phosphatides together with glycerides and traces of tocopherols, glucosides and pigments.

The mixture is usually obtained from crude extracted soybean oil by what is known as a degumming process. The carefully filtered crude oil is agitated with hot water and the hydrated and emulsified phosphatides are separated by a centrifuge. The emulsion is then dehydrated by heat and vacuum. The emulsion may also be subjected to additional treatments to produce the commercial grades to which the following descriptive terms may be applied:

Plastic or firm consistency; soft consistency; fluid; unbleached; bleached; and double bleached.

The two types of lecithin as recognized by the trade are:

1. **Crude Soybean Lecithin**—All grades of soybean lecithin obtained by the above or similar processing methods may be listed as crude soybean lecithins for such purposes as freight tariff classification.

2. **Refined Lecithin**—Refined lecithins are obtained by drying phosphatide mixtures and washing them with acetone to remove any oil or fatty acids originally included in the mixture. The acetone washed product may be finished for sale in two forms, namely:

a. Dry, oil-free lecithin.

b. Lecithin with another oil or fat substituted as a carrier in place of the oil originally found in the phosphatide mixture, e.g., lecithin with cocoa butter carrier.

BREAK MATERIAL—The material that separates from crude oil when it is heated to 55° F. It is mainly phosphatides and mucilaginous materials and their decomposition products.

SLUDGE—Sludge is the solid residue which cannot be pumped or squeegeed from the car or tank.

SOYBEAN FEEDS—Standard definitions adopted by the American Feed Control Officials, Inc., and the National Soybean Processors Association, with some modifications and revisions.

1. **Ground Soybeans**—The product obtained by grinding whole soybeans without cooking or removing any of the oil. (This product is sometimes erroneously called soybean meal, thus confusing it with soybean oil meal.)

2. **Soybean Oil Cake or Soybean Oil Chips**—The product obtained from soybeans after removal of part of the oil by pressure. A name descriptive of the process

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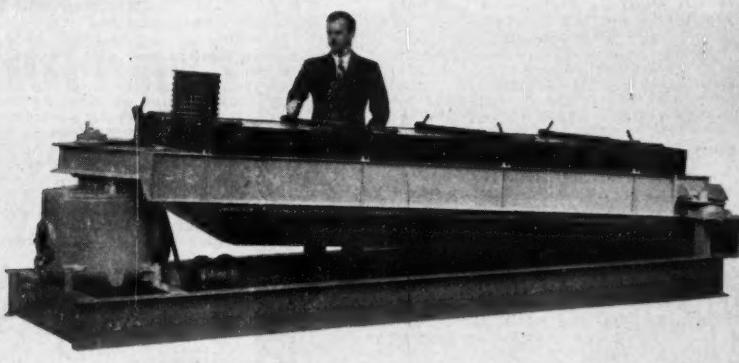
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ROTEX^{*}

S C R E E N E R S



ROTEX Screen No. 82
With two screen surfaces, each 40 by 120 inches.

Wherever there is a screening operation in a soybean plant, you will find that ROTEX Screeners can handle it to a real advantage.

At the present time ROTEX are being widely used for the rough cleaning of whole soybeans, for further cleaning them through a coarse screen and over a fine screen, for the sizing of soybean meal, both before and after grinding and for the removal of fine dust from finished meal.

ROTEX handles all these jobs exceptionally well because of the combination of the nearly level gyratory action of the screen box and the action of the rubber ball mesh cleaning system.

While the screen box action stratifies the material and conveys it over the screen surface at an angle of inclination of only 4 degrees, the rubber balls, bouncing continuously and uniformly against the underside of the screen mesh, keep the entire area of the screen mesh open and free from clogging, thus assuring a complete separation and a maximum capacity per square foot of screen area.

There are over twenty-two standard ROTEX Models, in various sizes, with from one to five screen surfaces so that it is always possible to obtain the proper size ROTEX for any capacity and separation requirement. Special Models, with variations to fit the customer's installation requirements, can also be furnished thus often eliminating expensive spouting or conveyors.

Our thirty-five years of experience in building ROTEX Screeners, with thousands of machines in daily use, assures you of trouble-free design and rugged construction that will give the most satisfactory continuous operation.

Send us a detailed description of your screening requirements and allow us to give you detailed information on ROTEX Screeners for your plant.

*Trade Mark Reg.

THE ORVILLE SIMPSON COMPANY
1230 KNOWLTON ST., CINCINNATI 23, OHIO

TERMINOLOGY—(Continued)

of manufacture, such as screw press or hydraulic press, shall be used as part of the brand name. It shall be designated and sold according to its protein content.

3. Solvent Extracted Soybean Flakes—The product obtained after extracting part of the oil from soybeans by the use of solvents. It shall be designated and sold according to its protein content.

4. Soybean Oil Meal—Soybean oil cake or soybean oil chips that have been ground, or solvent extracted soybean flakes that have been cooked and ground. A name descriptive of the process of manufacture, such as screw press, hydraulic, or solvent extracted shall be used in the brand name.

5. Screw Press Soybean Oil Chips—The product obtained after expressing part of the oil from soybeans by crushing, cooking and mechanical pressure using an expeller, screw press, or any other mechanical press. It shall be designated and sold according to its protein content.

6. Screw Press Soybean Oil Meal—The product obtained by grinding screw press soybean oil chips. It shall be designated and sold according to its protein content.

7. Hydraulic Soybean Oil Cake—The product obtained after expressing part of the oil from soybeans by crushing, cooking, and hydraulic pressure. It shall be designated and sold according to its protein content.

8. Hydraulic Soybean Oil Meal—The product obtained by grinding hydraulic soybean oil cake. It shall be designated and sold according to its protein content.

9. Solvent Extracted Soybean Oil Meal—The product obtained after cooking and grinding solvent extracted soybean flakes. It shall be designated and sold according to its protein content.

10. Soybean Mill Feed—The by-product resulting from the manufacture of soybean flour or grits and is composed of soybean hulls and the offal from the tail of the mill.

11. Soybean Hulls—The product consisting of the outer covering of the soybean.

12. Solvent Extracted Soybean Feed—The material obtained as a residue after the partial removal of protein and nitrogen-free extract from solvent extracted soybean flakes or solvent extracted soybean oil meal. It shall be designated and sold according to its protein content.

13. Dehulled Solvent Extracted Soybean Flakes—The product obtained from cleaned, dehulled soybeans after extracting part of the oil by the use of solvents. It shall contain not more than 3% crude fiber and shall be designated and sold according to its protein content. (Tentative.)

14. Dehulled Solvent Extracted Soybean Oil Meal—The product obtained from grinding and carefully grading dehulled solvent extracted soybean flakes. It shall contain not more than 3% crude fiber and shall be designated and sold according to its protein content. (Tentative.)

15. Soybean Cubes or Pellets—Soybean oil meal which has been processed through a cubing or pelleting machine. The product shall be firm but not flinty, of sweet odor and free from mold. It must be designated and sold according to its protein content and its name must include one of the terms, "hydraulic," "expeller," or "solvent extracted" to specify the method of manufacture of the source material. (Tentative.)

FEEDS—Standard specifications of the National Soybean Processors Association.

1. Soybean Chips, Soybean Oil Cake, and 41% Protein Soybean Oil Meal—Produced by cooking ground soybeans and reducing

the oil content of the cooked product by pressure to 6% or less on a commercial basis. Standard specifications are as follows:

Protein	Minimum 41.0%
Fat	Minimum 3.5%
Fiber	Maximum 7.0%
N.F.E.	Minimum 27.0%
Moisture (when shipped by seller)	Maximum 12.0%

2. Soybean Flakes and 44% Protein Soybean Oil Meal—Produced by conditioning ground soybeans and reducing the oil content of the conditioned product by the use of solvents to 1% or less on a commercial basis. Standard specifications are as follows:

Protein	Minimum 44.0%
Fat	Minimum 0.5%
Fiber	Maximum 7.0%
N.F.E.	Minimum 27.0%
Moisture (when shipped by seller)	Maximum 12.0%

SOY FLOUR—The name soy flour is a misnomer. Soy protein would better express the type of product. But change of the name now would be difficult. There are three types of soy flour, as follows:

1. Full-Fat Soy Flour—As it is not processed for oil extraction, it contains all of the fat originally found in the soybean, or over 20%. Higher in calorie content than the low-fat or defatted types.

2. Low-Fat Soy Flour—Made by a continuous mechanical pressing method in which the greater part of the oil is removed.

3. Defatted Soy Flour—Made by solvent extraction process. Contains less than 2% fat. Protein content of this type ranges up to 53%.

SOY FLAKES—Produced by the solvent extraction process. The particle size can be varied within production limits to meet specifications and trade demands.

SOY MEATS AND GRITS—Meats corresponding to full-fat soy flour and grits to low-fat flour or defatted flour, except that they are coarsely, not finely ground.

SOYBEAN PROTEINS

1. Soybean Protein Flakes—Full fiber soybean flakes freed of oil by solvent extraction and dried by processes which denature the protein to a minimum extent so that a high percentage of it remains soluble or dispersible in water. The flakes are usually ground to fine particle size before being used.

2. Mechanically Refined Soybean Protein Flakes—Flakes processed in the same manner as soybean protein flakes except that hulls are removed and the fiber content reduced by mechanical means.

3. Isolated Soybean Protein—Obtained by treating soybean protein flakes chemically so as to remove cellulose, sugar and other non-protein ingredients. Used in water emulsion paints and paper coatings.

4. Soy Albumins—Water dispersible soybean protein modified for use in whipping compounds or as aerating agents. Used in meringues, marshmallows and other confections.

5. Gelsoy—Developed by the Northern Regional Research Laboratory. Obtained by washing soybean protein flakes with alcohol and extracting the protein with water. Besides having good whipping characteristics Gelsoy forms gels which are irreversible after being heated.

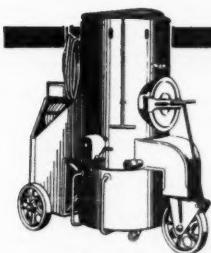
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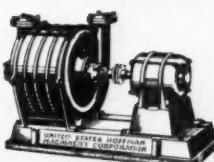


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CANADIAN PLANT: CANADIAN HOFFMAN, NEWMARKET, ONT.

WEIGHTS AND MEASURES

SOYBEANS

1 bu.....	60 lbs. (legal weight)
	(Minimum test weight 56 lbs.)
1 cu. ft.....	45 lbs.

(Figured at 56 lbs. test weight)

SOYBEAN OIL

1 cu. ft.....	56.84 to 57.97 lbs.
---------------	---------------------

Figures supplied by different processors of soybeans. Density of soybean oil varies slightly with different lots and considerably with temperature. It is reported to range from 0.922 to 0.934 gram per cc. at 49° F., and from 0.915 to 0.920 at 77° F.

One firm reports the following pound-per-cubic-foot weights of soybean oil at various temperatures:

60° F.	57.62
70° F.	57.39
100° F.	56.73

Another supplies the following figures:
 1 gal. at 60° F. (average).....7.695 lbs.
 Specific heat at 185° F.....0.579 cal./gm.
 Viscosity at 25° C.....51.0 centipoises
 Coefficient of expansion (approx.).. .00038

SOYBEAN LECITHIN

1 cu. ft.....	65.82 lbs.
---------------	------------

SOYBEAN OIL MEAL

Expeller, 41%	
1 cu. ft.....	38 lbs.

Solvent Extracted, 44%

1 cu. ft.	36 to 38 lbs.
----------------	---------------

Above figures are given by most processors queried. However one processor lists both 41% and 44% soybean oil meal as weighing 41.12 pounds per cubic foot. Meals of higher protein content generally weigh above 40 pounds per cubic foot. Bulk density of soybean oil meals varies according to particle size and moisture content, percentage of hulls, amount of vibration to which container is subjected during filling, temperature, granulation and age of sample.

One processor supplies the following figures:

per cu. ft.	
Fresh production 110° F.....	38.3 lbs.
After quick cooling to 80° F.....	40.7 lbs.
After 24 hrs. cooling to 45° F.....	41.5 lbs.

SOYBEAN PELLETS

44%, $\frac{1}{4}$ -in. to $\frac{5}{8}$ -in.	
1 cu. ft.	41.12 lbs.
1 cu. ft.	38.55 lbs.

SOY FLOUR, DEFATTED

1 cu. ft.	39.84 lbs.
----------------	------------

Figures for soybean pellets and soy flour are from one processor only.

SIROTA, TAYLOR & PRESTON, INC.

Futures Brokers

Cottonseed Oil and Soybean Oil

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**Benjamin Sirota
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You get the benefit of more than 70 years' engineering and manufacturing experience when you consult us about equipment for processing oil-bearing beans, seeds, and nuts.

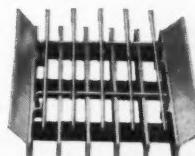
A few pieces of Bauer equipment are shown on this page. We make other types of cleaners, shakers, magnetic separators, attrition and hammer mills; also cake breakers, crushers, granulators, etc. All are illustrated and described in our catalogs and bulletins.

We suggest that you ask for our Bulletin No. 52 which shows the complete line of Bauer equipment. Then we'll be happy to give you specific information on any articles which particularly interest you.

Before you make any commitments on processing equipment, be sure to learn about the Bauer line.



No. 406 Hammer Mill.
 Designed for grinding meal residues.



Magnetic Grate. For installation in floor openings, hoppers, and vertical spouts. Made in sizes from 2" x 4" to 6' and 8' square. Catches all ferrous inclusions as well as sticks, stems, strings, rags, etc. Nothing else like it!

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Established 1878

SOYBEAN BLUE BOOK

SOYBEAN PRODUCTION—UNITED STATES

SOYBEANS: ACREAGE, YIELD AND PRODUCTION IN THE UNITED STATES, 1924-51

Year	Acres Planted		Acres Harvested		Grazed or Plowed Under	Average Yield Per Acre		Total Production		
	Grown Alone	Inter-planted*	For Beans**	For Hay		For Beans	For Hay	Bushels	Tons	Bushels
	Thousand Acres		Thousand Acres							
1924	1567	417	1782	448	1147	187	11.0	1.13	4947	1299
25	1539	476	1785	415	1175	195	11.7	1.01	4875	1185
26	1871	502	2127	466	1431	230	11.2	1.18	5239	1687
27	2057	571	2350	563	1556	226	12.2	1.18	6938	1837
28	2154	556	2439	579	1609	251	13.6	1.23	7880	1974
29	2429	743	2807	708	1774	325	13.3	1.16	9438	2051
1930	3072	786	3473	1074	2062	337	13.0	.94	13929	1938
31	3835	909	4304	1141	2772	391	15.1	1.26	17260	3479
32	3704	893	4165	1001	2738	426	15.1	1.25	15158	3433
33	3537	813	3957	1044	2506	407	12.9	1.16	13509	2917
34	5764	858	6207	1556	4227	424	14.9	1.08	23157	4545
35	6966	1028	7503	2915	4044	544	16.8	1.34	48901	5422
36	6127	2115	7183	2359	3116	1708	14.3	.96	33721	3002
37	6332	2261	7464	2586	3469	1409	17.9	1.36	46164	4731
38	7318	2541	8587	3035	3724	1828	20.4	1.43	61906	5335
39	9565	2710	10920	4315	4590	2015	20.9	1.48	90141	6772
1940	10487	2589	11782	4807	4819	2156	16.2	1.34	78045	6450
41	10068	2555	11345	5889	3546	1910	18.2	1.30	101797	4616
42	13696	2426	14912	9894	2621	2397	19.0	1.36	187524	3555
43	14191	2475	15428	10997	3177	1854	18.3	1.21	190133	3387
44	13118	1861	14050	10232	2583	1235	18.8	1.19	191958	3041
45	13007	1337	13777	10661	1939	1177	18.0	1.28	192076	2476
46	11662	1530	12427	9806	1533	1088	20.5	1.29	201275	1984
47	12956	1506	13709	11212	1333	1164	16.4	1.22	183558	1631
48	11843	1390	12538	10430	1160	948	21.4	1.34	223006	1550
49	11628	1346	12301	10156	1168	977	22.7	1.40	230897	1633
1950	15129	1228	15744	13814	1047	883	21.7	1.31	299279	1367
51§	14838	1080	15379	13211	989	1179	21.2	1.25	280512	1237

* Grown with other crops.

** Acreage grown alone, with an allowance for acreage grown with other crops.

† Preliminary.

Source of data: Bureau of Agricultural Economics, U. S. Department of Agriculture.

SOYBEANS: ACREAGE, YIELD AND PRODUCTION IN THE UNITED STATES, BY STATES, 1951*

State	Acres Planted		Acres Harvested		Grazed or Plowed Under	Average Yield		Total Production		
	Grown Alone	Inter-planted**	Equivalent Solid†	For Beans	For Hay	For Beans	For Hay	Bushels	Tons	
	Thousand Acres		Thousand Acres							
United States	14838	1080	15379	13211	989	1179	21.2	1.25	280512	1237
Alabama	166	8	170	88	66	16	18.0	.90	1584	59
Arkansas	685	111	741	607	74	60	20.5	1.15	12444	85
Delaware	69	—	69	61	6	2	14.5	1.30	884	8
Florida	10	—	10	8	—	2	18.0	—	144	—
Georgia	86	55	114	21	30	63	10.5	.90	220	27
Illinois	3738	—	3738	3637	67	34	26.0	1.40	94562	94
Indiana	1659	—	1659	1551	83	25	23.5	1.45	36448	120
Iowa	1568	—	1568	1512	15	41	21.5	1.40	32508	21
Kansas	495	—	495	401	5	89	14.5	1.45	5814	7
Kentucky	212	16	220	130	70	20	19.0	1.40	2470	98
Louisiana	107	291	253	33	10	210	17.5	1.10	578	11
Maryland	95	—	95	77	12	6	16.0	1.40	1232	17
Michigan	128	—	128	120	4	4	20.5	1.70	2460	7
Minnesota	1140	—	1140	1077	13	50	17.5	1.40	18848	18
Mississippi	600	70	635	425	127	83	14.0	1.20	5950	152
Missouri	1396	44	1418	1290	28	100	20.0	1.35	25800	35
Nebraska	60	—	60	58	—	2	22.0	—	1276	—
New Jersey	39	—	39	20	9	10	16.5	1.60	330	14
New York	9	—	9	7	—	2	18.0	—	126	—
North Carolina	439	185	531	300	132	99	16.5	1.20	4950	158
North Dakota	31	—	31	28	2	1	13.0	1.25	364	2
Ohio	1159	—	1159	1124	18	17	19.0	1.35	21356	24
Oklahoma	120	—	120	77	24	19	13.5	1.15	1040	28
Pennsylvania	43	—	43	22	17	4	17.0	1.65	374	28
South Carolina	114	102	165	83	21	61	12.5	1.00	1038	21
South Dakota	63	—	63	60	1	2	14.5	1.20	870	1
Tennessee	310	142	381	183	99	99	17.5	1.20	3202	119
Texas	3	—	3	—	1	2	—	.70	—	1
Virginia	220	56	248	166	34	48	18.0	1.30	2988	44
West Virginia	11	—	11	1	8	2	14.5	1.60	14	13
Wisconsin	63	—	63	44	13	6	14.5	1.70	638	22

* Preliminary.

** Grown with other crops.

† Acreage grown alone, plus one-half the interplanted acreage.

Source of data: Bureau of Agricultural Economics, U. S. Department of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: SUPPLY AND UTILIZATION IN THE UNITED STATES, 1924-51

Year Beginning October 1	Supply				Utilization				Carryover Sept. 30, 7/
	Total Stocks Oct. 1*	Produc- tion**	Imports for Con- sumption	Total Supply†	Seed	Feeds	Processed for Oil and Meal	Exports‡	
1,000 BUSHELS									
1924-25	5	4,947	60	5,012	1,900	1,207	307	—	1,596
1925-26	2	4,875	71	4,948	2,289	1,174	351	—	1,134
1926-27	8/	5,239	67	5,306	2,525	1,311	335	—	1,133
1927-28	2	6,938	70	7,010	2,657	1,631	559	—	2,133
1928-29	8/	7,880	17	7,957	2,984	1,473	882	—	2,548
1929-30	70	9,438	64	9,572	3,762	1,730	1,666	—	2,298
1930-31	116	13,929	54	14,099	4,724	2,763	4,069	—	2,049
1931-32	494	17,260	49	17,303	4,633	2,867	4,725	2,161	3,295
1932-33	122	15,158	13	15,293	4,490	2,264	3,470	2,450	2,561
1933-34	58	13,509	6	13,573	7,615	2,111	3,054	—	767
1934-35	26	23,157	5	23,188	10,066	2,036	9,105	19	1,643
1935-36	319	48,901	4	49,224	8,875	3,898	25,181	3,490	7,419
1936-37	361	33,721	17	34,099	9,539	2,741	20,618	19	889
1937-38	293	46,184	3	46,460	10,947	3,273	30,310	1,392	198
1938-39	340	61,906	3	62,249	14,667	4,554	44,848	4,424	-7,009
1939-40	965	90,141	2	91,108	15,974	5,365	56,684	10,979	1,713
1940-41	393	78,045	1	78,439	15,141	4,999	64,056	284	-6,731
1941-42	690	107,197	8/	107,587	20,385	3,925	77,151	489	-72
1942-43	6,009	187,524	8/	193,533	20,980	6,016	133,454	917	19,629
1943-44	12,537	190,133	8/	202,670	19,758	5,496	142,306	962	19,995
1944-45	14,153	191,958	4	206,111	18,885	3,598	153,402	5,090	17,398
1945-46	7,738	192,076	8/	199,814	16,473	3,724	159,460	2,853	12,973
1946-47	4,326	201,275	8/	205,601	17,177	2,516	170,245	3,880	6,462
1947-48	5,361	183,558	8/	188,919	15,665	2,315	161,397	2,972	4,006
1948-49	2,564	223,006	7	225,577	15,381	2,609	183,664	23,015	-2,199
1949-50	3,107	230,897	4	234,008	18,493	2,393	195,115	18,141	1,996
1950-51	2,870	299,279	2	302,151	18,000	2,358	251,633	27,833	-1,706
1951-52§§	4,031	280,512							4,031

*Factory and warehouse stocks only, through Oct. 1, 1941; total stocks, Oct. 1, 1942 and subsequently.

**Crop of year listed first, e.g., the 1924 crop was 4,947,000 bushels. †Sum of stocks, production and imports. The "total supply" figures for years previous to 1942-43 are incomplete to the extent that they do not include stocks on farms, in country elevators, and at terminal markets. (Such stocks were not reported previous to Oct. 1, 1942.) Figures are not adjusted for new crop soybeans used in September. Use in September of year of harvest is estimated for recent years as follows: .6 million bushels in 1947, 4.9 million bushels in 1948, 8.8 million bushels in 1949, 2.7 million bushels in 1950, and 5.9 million bushels in 1951. ‡Fed to livestock on farms where produced. §Data not available for years previous to 1931-32. Includes shipments to U. S. Territories in 1937-38 and subsequent years. ¶Residual item. This includes soybeans fed to livestock other than on farms where the soybeans were produced. It may also include small quantities used for human food. Prior to 1931-32 it includes exports. Prior to 1937-38 it includes shipments to U. S. territories. The minus quantities shown for some years are explainable largely by unreported stocks (prior to Oct. 1942) and by the use of new crop soybeans in September of year of production. 7/ Factory and warehouse stocks only, through September 30, 1941; total stocks, Sept. 30, 1942 and subsequently. 8/ Less than 500 bushels. §§ Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Department of Agriculture.

VALUE OF U. S. SOYBEAN CROP

SOYBEANS FOR BEANS: Value of production, United States and specified States, 1925-51

Year	U. S.	Illinois	Iowa	Indiana	Ohio	Missouri	Minnesota
Thousands of Dollars							
1925	11,430	3,077	260	872	571	905	—
1930	19,058	8,225	1,350	2,495	651	1,584	—
1935	35,565	18,983	4,510	4,879	1,771	1,140	76
1940	70,224	29,675	12,478	8,929	8,168	1,601	779
1941	166,042	77,411	24,341	21,337	20,336	3,462	1,752
1942	301,137	108,830	56,013	42,472	38,073	11,304	5,288
1943	345,032	129,881	65,743	46,461	45,851	15,714	5,929
1944	393,474	151,486	79,485	51,685	44,629	21,457	8,088
1945	399,698	156,416	73,143	58,889	39,935	19,843	18,501
1946	516,387	196,610	94,707	66,048	40,310	36,618	27,648
1947	612,290	221,869	98,995	92,594	59,404	31,650	46,092
1948	506,555	184,336	79,529	72,862	42,812	36,093	34,663
1949	499,743	187,162	69,345	74,061	44,479	38,154	28,332
1950	737,822	238,383	112,094	89,208	62,539	64,790	44,129
1951*	771,576	264,774	89,397	100,232	58,729	70,950	50,890

*Preliminary.

Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

CANADIAN SOYBEAN PRODUCTION

PRODUCTION OF SOYBEAN OIL AND OILCAKE IN CANADA

Crop Year	Soybeans Crushed	Oil Produced Bushels	Oilcake Tons	Year	Acreage, Yield and Total Production		
	Bushels				Acreage	Yield per Acre	Production
1943-44	241,315	1,078	6,308	1942	44,000	21.0	925,000
1944-45	889,283	3,875	21,064	1943	35,550	16.0	569,100
1945-46	1,541,869	7,333	36,439	1944	36,200	18.8	681,820
1946-47	2,277,304	11,362	52,596	1945	46,200	18.3	844,000
1947-48	2,300,743	12,236	54,343	1946	59,200	18.1	1,072,900
1948-49	3,901,831	19,832	89,002	1947	61,000	18.2	1,110,000
1949-50	4,958,799	25,237	116,845	1948	94,000	19.4	1,824,000
1950-51 1/	7,393,274	36,338	176,343	1949	103,800	25.1	2,605,000
1/ Preliminary				1950	142,000	23.4	3,323,000
Source of data: Dominion Bureau of Statistics.				1951	176,100	24.8	4,367,000

WORLD SOYBEAN PRODUCTION

SOYBEANS: ACREAGE, YIELD PER ACRE, AND PRODUCTION IN SPECIFIED COUNTRIES, AVERAGE 1935-39 AND 1940-49, ANNUAL 1950 AND 1951 1/

Continent and Country	Acreage 2/				Yield per acre				Production			
	Average 1935-39		Average 1940-49		Average 1950		Average 1951		Average 1935-39		Average 1940-49	
	1000 Acres	Acres 4/	1000 Acres	Acres 10/	1000 Acres	Acres	Bu.	Bu.	1000 Bu.	1000 Bu.	1000 Bu.	1000 Bu.
North America:												
Canada	10	50	142	176	20.7	19.7	23.4	24.8	207	1,008	3,323	4,367
United States 5/	3,042	9,348	13,814	13,211	18.5	19.0	21.7	21.2	56,167	178,567	299,279	280,512
Europe:												
Bulgaria	24	57	—	—	12.1	—	—	—	416	287	—	—
Hungary	7	6	—	—	16.9	—	—	—	125	73	—	—
Italy	6/	5	2	1	12.1	—	17.5	24.9	1	82	29	31
Rumania	49	—	—	—	9.5	—	—	—	463	—	—	—
U.S.S.R. (Europe and Asia)	607	—	—	—	—	—	—	—	5,805	—	—	—
Asia:												
Turkey	1	2	5	6	29.0	—	13.4	12.5	37	31	66	77
China (22 provinces)	12,411	11,192	—	—	16.7	16.5	—	—	207,666	184,825	—	—
Manchuria	8,992	7,081	—	—	16.8	15.9	—	—	151,294	112,255	—	—
Japan	797	683	750	—	15.6	13.2	15.8	—	12,338	9,009	11,864	11,000
Formosa	17	23	—	—	8.9	—	—	—	151	210	—	—
Korea	1,921	7,586	—	—	10.0	—	—	—	17,654	7,5228	—	—
Indonesia 8/	889	738	808	880	10.9	10.0	11.1	10.7	9,731	7,364	9,002	9,450
South America:												
Brazil 9/	—	19	—	—	—	—	—	—	—	313	1,323	1,860
Africa:												
Tanganyika	—	4	—	—	—	—	—	—	—	36	31	19
Union of South Africa	—	10	—	—	—	—	—	—	—	54	40	50
Total non-communist area	5,670	—	16,490	16,030	—	—	—	—	87,190	—	332,870	315,900
World total 11/	29,000	31,250	36,990	37,000	—	—	—	—	463,720	515,500	666,170	653,370

1/ Years shown refer to years of harvest. Southern Hemisphere crops which are harvested in the early part of the year are combined with those of the Northern Hemisphere harvested in the latter part of the same year. 2/ Figures refer to harvested areas as far as possible. 3/ Preliminary. 4/ The figures for Canada, Italy, Rumania, Formosa and Korea are averages of less than 5 years. Figures for Hungary, U.S.S.R., and Turkey are for one year only. 5/ Acreage harvested for beans. 6/ Less than 500 acres. 7/ South Korea only. 8/ Java and Madura only. 9/ Rio Grande do Sul and Sao Paulo. 10/ The figures for Bulgaria, Hungary, Turkey, China, South Korea, Indonesia, Brazil, Tanganyika, and Union of South Africa are averages of less than 10 years, and in most of these cases are partly estimated. The figure for Manchuria is an average of 10 years, partly estimated. 11/ Includes estimates for the above countries for which data are not available and for minor producing countries.

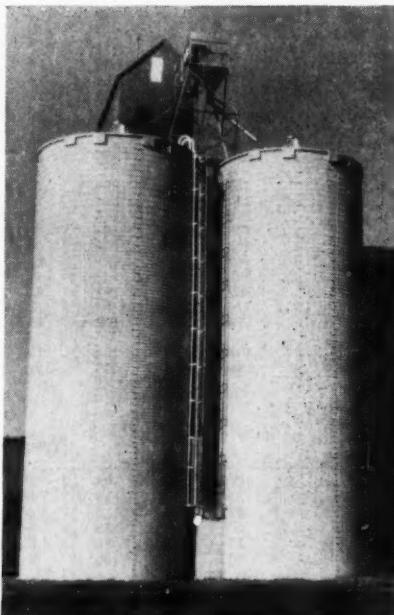
Data compiled or estimated by Office of Foreign Agricultural Relations, U. S. Department of Agriculture. Prewar estimates for countries having changed boundaries have been adjusted to conform to present boundaries, except as noted.

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SOYBEAN PRODUCTION

SOYBEANS: Acreage, Yield and Production 1924-51 by States

Alabama

Year	Grown Alone		Acres Planted Inter- planted*		Acres Harvested For Beans†		Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production For Beans		Total Production For Hay
	Thousand	Acre	Thousand	Acre	For	Hay		Bushels	Tons	Bushels	Tons
1924	95	25	107	3	81	23	6.5	.80	20	65	
25	115	23	127	3	96	28	7.0	.60	21	58	
26	115	21	125	4	100	21	4.5	1.00	18	100	
27	121	22	132	5	103	24	6.0	.85	30	88	
28	79	15	87	4	69	14	6.0	.85	24	59	
29	111	12	117	7	96	14	6.0	.85	42	82	
1930	150	14	157	8	129	20	5.0	.80	40	103	
31	170	27	184	9	147	28	4.8	.95	43	140	
32	105	26	118	7	97	14	6.0	.90	42	87	
33	152	17	160	9	136	15	5.5	.90	50	122	
34	159	15	166	10	140	16	6.0	.90	60	126	
35	183	28	197	11	163	23	5.5	.90	60	147	
36	252	62	283	14	207	62	6.0	.90	84	186	
37	240	54	267	11	212	44	7.0	.95	77	201	
38	271	60	301	10	228	63	5.5	1.05	55	239	
39	262	46	285	10	230	45	6.2	.90	62	207	
1940	275	37	294	11	238	45	6.5	.90	72	214	
41	35 ¹	35	368	19	288	61	8.0	.95	152	274	
42	290	30	305	24	217	64	8.5	.90	204	195	
43	331	28	345	29	248	68	10.5	.85	304	211	
44	268	22	279	30	191	58	10.0	.85	300	162	
45	241	20	251	27	176	48	11.0	.90	297	158	
46	236	18	245	30	175	40	16.0	1.00	480	175	
47	189	15	197	41	124	32	18.0	.90	738	112	
48	176	14	183	55	108	20	20.0	1.00	1100	108	
49	174	13	180	61	101	18	17.0	1.05	1037	106	
1950	150	10	155	73	68	14	19.0	1.00	1387	68	
51 [§]	166	8	170	88	66	16	18.0	.90	1584	59	

Arkansas

1924	24	27	38	3	24	11	6.5	1.10	20	26	
25	32	35	50	4	36	10	6.0	.90	24	32	
26	42	40	62	5	46	11	7.5	1.10	38	51	
27	50	56	78	5	61	12	12.5	1.15	62	70	
28	57	46	80	6	59	15	10.0	1.05	60	62	
29	80	58	109	6	82	21	13.0	1.00	78	82	
1930	76	51	102	9	76	17	7.5	.75	68	57	
31	105	61	136	14	101	21	12.0	1.15	168	116	
32	92	56	120	12	84	24	8.0	.95	96	80	
33	92	44	114	16	87	11	12.5	1.10	200	96	
34	97	75	134	20	94	20	8.0	.70	160	66	
35	116	90	161	27	104	30	11.5	.95	310	99	
36	203	255	330	49	124	157	7.5	.85	368	105	
37	195	285	338	71	119	148	13.0	1.15	923	137	
38	242	360	422	63	137	222	12.5	1.05	788	144	
39	238	405	440	44	175	221	12.5	1.15	550	201	
1940	205	413	411	63	163	185	12.0	1.25	766	204	
41	217	425	429	116	124	189	15.0	1.15	1740	143	
42	304	400	504	217	132	155	15.0	1.20	3255	158	
43	410	420	620	267	180	173	9.5	.95	2536	171	
44	320	273	456	233	122	101	15.5	.95	3612	116	
45	342	177	430	209	119	102	16.0	1.15	3344	137	
46	369	204	471	295	81	95	18.5	1.15	5458	93	
47	380	169	464	283	88	93	12.0	1.00	3396	83	
48	312	145	384	264	66	54	19.5	1.30	5148	86	
49	331	130	396	291	44	61	20.0	1.35	5820	59	
1950	646	176	734	581	80	73	21.5	1.20	12492	96	
51 [§]	685	111	741	607	74	60	20.5	1.15	12444	85	

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

Delaware

Year	Acres Planted		Acres Harvested or Plowed Under		Average Yield Per Acre Harv.		Total Production For Hay	
	Grown Alone	Inter-planted*	For Beans†	For Hay	For Beans	For Hay	Bushels	Tons
1924	18	—	18	12	6	—	11.0	1.00
25	18	—	18	11	7	—	15.0	1.10
26	14	—	14	8	6	—	14.0	1.05
27	21	—	21	14	7	—	16.0	1.30
28	22	—	22	13	9	—	17.0	1.30
29	23	—	23	15	8	—	14.0	1.20
1930	25	—	25	15	10	—	6.0	1.15
31	25	—	25	14	11	—	14.0	1.20
32	30	—	30	16	14	—	10.0	1.25
33	29	—	29	17	12	—	14.0	1.25
34	29	—	29	17	12	—	16.5	1.35
35	27	—	27	16	11	—	13.0	1.30
36	33	—	33	15	15	3	12.0	1.25
37	37	—	37	19	14	4	15.0	1.30
38	44	—	44	22	16	6	15.0	1.30
39	47	—	47	26	15	6	13.0	1.25
1940	48	—	48	25	16	7	12.0	1.20
41	53	—	53	30	17	6	11.5	1.30
42	66	—	66	42	18	6	16.0	1.40
43	76	—	76	39	27	10	8.5	.90
44	67	—	67	34	24	9	9.0	1.10
45	55	—	55	33	15	7	14.0	1.35
46	55	—	55	33	14	8	15.5	1.25
47	60	—	60	42	12	6	13.0	1.30
48	60	—	60	41	12	7	12.5	1.25
49	63	—	63	44	12	7	15.0	1.25
1950	74	—	74	63	8	3	14.0	1.30
51§	69	—	69	61	6	2	14.5	1.30
								884
								8

Georgia

1924	40	28	54	10	25	19	5.5	.80	55	20
25	49	42	70	12	33	25	6.5	.40	78	13
26	36	30	51	10	35	6	6.0	.91	60	32
27	51	24	63	9	44	10	6.3	.90	57	40
28	37	16	45	5	33	7	6.5	.90	32	30
29	36	24	48	8	33	7	5.5	.84	44	28
1930	56	26	69	10	50	9	5.5	.87	55	44
31	74	40	94	13	68	13	5.2	.75	68	51
32	46	43	68	7	41	20	6.0	.85	42	35
33	47	35	64	7	45	12	5.0	.82	35	37
34	50	32	66	7	48	11	6.0	.83	42	40
35	50	33	66	7	48	11	6.0	1.00	42	48
36	75	100	125	13	73	39	5.5	.83	72	61
37	75	120	135	14	74	47	6.0	.90	84	67
38	98	130	163	15	95	53	5.5	.90	82	86
39	105	145	178	15	102	61	5.0	.90	75	92
1940	100	120	160	13	90	57	7.0	.95	91	86
41	125	98	169	14	85	70	6.5	.85	91	72
42	96	56	124	11	58	55	7.5	.88	82	51
43	103	64	135	11	70	54	6.5	.90	72	63
44	80	40	100	11	46	43	6.0	.90	66	41
45	66	35	84	6	48	30	7.5	.95	45	46
46	63	34	80	9	32	39	7.0	.90	63	29
47	64	36	82	14	32	36	7.0	.90	98	29
48	70	38	89	15	33	41	7.5	1.00	112	33
49	77	44	99	14	40	45	8.0	1.05	112	42
1950	78	58	107	26	28	53	11.0	.95	286	27
51§	86	55	114	21	30	63	10.5	.90	220	27

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

Illinois

Year	Acres Planted		Acres Harvested		Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production			
	Grown Alone	Inter- planted*	For Beans†	For Hay			For Beans	For Hay		
	Thousand Acres		Thousand Acres			Bushels	Tons	Bushels	Tons	
1924	315	—	315	115	200	12.0	1.30	1380	250	
25	290	—	290	106	184	13.5	1.25	1431	230	
26	350	—	350	140	210	12.5	1.25	1750	262	
27	420	—	420	184	245	13.0	1.25	2392	306	
28	463	—	463	186	277	16.5	1.30	3069	360	
29	514	—	514	226	288	17.0	1.30	3842	374	
1930	720	—	720	410	310	17.0	1.20	6970	372	
31	969	969	428	522	19	15.0	1.40	7704	781	
32	776	—	776	388	372	16	20.0	1.55	7760	577
33	786	—	786	361	346	79	16.0	1.05	5415	363
34	1715	—	1715	724	948	43	19.0	1.20	13756	1138
35	2431	—	2431	1509	8'9	73	18.5	1.45	27916	1231
36	2043	—	2043	1278	561	204	16.0	1.00	20448	561
37	2241	—	2241	1355	729	157	20.0	1.55	27100	1130
38	2243	—	2243	1433	640	170	23.5	1.60	33676	1024
39	2890	—	2890	1892	750	248	24.5	1.65	46354	1238
1940	3011	—	3011	1995	748	268	17.5	1.25	34912	935
41	2813	—	2813	2338	420	55	21.5	1.30	50267	546
42	3769	—	3769	3239	344	186	21.0	1.40	68019	482
43	3976	—	3976	3436	497	43	21.0	1.30	72156	646
44	3896	—	3896	3470	387	39	21.4	1.15	74258	445
45	4079	—	4079	3760	279	40	20.0	1.20	75200	335
46	3524	—	3524	3320	186	18	23.5	1.45	78020	270
47	3806	—	3806	3636	144	26	18.0	1.10	65448	158
48	3502	—	3502	3354	124	24	24.0	1.40	80496	174
49	3467	—	3467	3287	145	35	26.0	1.45	85462	210
1950	4108	—	4108	3989	94	25	24.0	1.30	95736	122
51	3738	—	3738	3637	67	34	26.0	1.40	94562	91

Indiana

1924	204	—	204	66	109	29	9.9	1.22	653	133
25	148	—	148	40	93	15	10.0	1.25	400	116
26	189	—	189	42	111	36	12.6	1.15	529	128
27	210	—	210	68	118	24	13.0	1.33	884	157
28	289	—	289	69	111	49	14.5	1.38	1000	236
29	326	—	326	95	176	55	15.0	1.29	1425	227
1930	443	—	443	151	248	44	14.0	1.10	2114	273
31	585	—	585	175	363	47	17.8	1.41	8115	512
32	563	—	563	141	371	51	16.0	1.40	2256	519
33	428	—	428	120	274	34	15.0	1.15	1800	316
34	621	—	621	185	391	45	16.0	1.20	2960	469
35	850	—	850	410	391	49	17.0	1.45	6970	567
36	748	—	748	299	315	124	14.0	.90	4186	284
37	812	—	812	341	366	106	17.0	1.50	5797	548
38	901	—	901	469	288	144	20.0	1.55	9380	446
39	1377	—	1377	740	551	86	19.0	1.62	14060	893
1940	1418	—	1418	723	548	147	13.0	1.00	9899	548
41	1234	—	1234	815	370	49	17.0	1.35	12855	500
42	1691	—	1691	1319	296	76	21.0	1.50	26880	444
43	1776	—	1776	1403	337	86	18.5	1.40	25956	472
44	1812	—	1812	1473	304	35	17.2	1.20	25336	365
45	1703	—	1703	1466	28	29	19.5	1.45	28547	302
46	1533	—	1533	1374	136	23	19.0	1.40	28106	190
47	1625	—	1625	1503	106	16	18.5	1.40	27806	148
48	1560	—	1560	1459	86	15	22.0	1.55	32098	133
49	1576	—	1576	1442	110	24	24.0	1.50	34608	165
1950	1765	—	1765	1652	88	25	22.5	1.45	37170	128
51	1659	—	1659	1551	83	26	23.5	1.45	36448	120

*Gr. wn with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

Iowa

Year	Acres Planted		Acres Harvested For Beanst	Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production For Hay	
	Grown Alone	Inter- planted*				Bushels	Tons
	Thousand Acres		Thousand Acres				
1924	23	—	23	10	13	12.0	1.50
25	18	—	18	7	11	14.0	1.40
26	24	—	24	10	14	15.0	1.40
27	48	—	48	23	21	12.0	1.40
28	63	—	63	21	42	17.0	1.50
29	80	—	80	36	44	16.0	1.50
1930	124	—	124	66	57	1	15.5
31	159	—	159	51	107	1	15.5
32	217	—	217	52	163	2	18.0
33	248	—	248	95	151	2	17.0
34	853	—	853	180	656	17	11.5
35	1200	—	1200	408	757	35	16.5
36	586	—	586	192	290	104	14.0
37	753	—	753	234	477	42	18.5
38	930	—	930	308	562	60	21.0
39	1288	—	1288	550	675	63	20.7
1940	1481	—	1481	709	707	65	20.0
41	1288	—	1288	942	297	49	17.0
42	2061	—	2061	1818	125	118	19.5
43	2021	—	2021	1873	127	21	19.5
44	2028	—	2028	1910	89	29	20.3
45	1973	—	1973	1910	45	18	18.5
46	1578	—	1578	1548	22	8	23.0
47	1957	—	1957	1884	20	53	15.5
48	1616	—	1616	1564	44	8	22.5
49	1380	—	1380	1340	30	10	23.0
1950	1960	—	1960	1930	18	12	22.0
51§	1568	—	1568	1512	15	41	21.5

Kansas

1924	11	—	11	2	9	—	11.0	1.30	22	12
25	12	—	12	4	8	—	10.0	1.30	40	10
26	12	—	12	4	8	—	10.0	1.25	40	10
27	9	—	9	3	6	—	12.0	1.35	36	8
28	13	—	13	4	9	—	11.0	1.25	44	11
29	15	—	15	4	11	—	9.0	1.10	36	12
1930	27	—	27	7	20	—	7.5	1.10	52	22
31	44	—	44	12	32	—	9.0	1.20	108	38
32	44	—	44	11	33	—	7.3	1.10	80	36
33	55	—	55	11	44	—	8.5	1.20	94	53
34	48	—	48	7	39	2	5.0	.65	35	25
35	38	—	38	7	29	2	6.5	1.10	46	32
36	39	—	39	6	32	1	4.0	.60	24	19
37	28	—	28	4	22	2	8.0	1.15	32	25
38	38	—	38	6	29	3	10.5	1.40	63	41
39	45	—	45	11	25	9	8.0	1.20	88	30
1940	78	—	78	26	43	9	12.0	1.55	312	6
41	83	—	83	47	26	10	11.5	1.60	540	4
42	290	—	290	212	20	58	11.5	1.65	2438	33
43	313	—	313	244	16	53	9.5	1.15	2318	18
44	203	—	203	185	14	4	13.7	1.40	2534	20
45	258	—	258	235	10	13	10.0	1.20	2350	12
46	225	—	225	198	16	11	11.0	1.10	2178	18
47	241	—	241	222	8	11	8.5	1.30	1887	10
48	188	—	188	167	5	16	15.0	1.55	2505	8
49	250	—	250	237	5	8	14.5	1.70	3436	8
1950	409	—	409	397	4	8	18.0	1.40	7146	6
51§	495	—	495	401	5	89	14.5	1.45	5814	7

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

Kentucky

Year	Acres Planted			Acres Harvested			Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production	
	Green Alone	Inter- planted*	Equivalent Solid†	For Beans	For Hay	Bushels			Bushels	Tons
	Thousand Acres			Thousand Acres						
1924	40	10	45	9	30	6	9.5	1.10	86	33
25	50	12	56	8	43	5	8.5	1.10	68	47
26	80	10	85	7	65	13	9.0	1.25	63	51
27	72	10	77	6	52	19	9.0	1.20	54	62
28	100	8	104	5	88	11	10.0	1.20	50	106
29	121	10	126	8	96	22	10.5	1.20	84	115
1930	110	8	114	9	88	17	7.5	.75	68	66
31	136	14	143	11	108	24	12.0	1.35	132	146
32	132	12	138	10	107	21	11.5	1.30	115	139
33	115	10	120	8	97	15	10.0	1.30	80	126
34	95	10	100	9	81	10	10.5	1.25	94	101
35	100	11	106	8	86	12	10.0	1.35	80	116
36	125	15	127	11	87	34	9.5	.90	104	78
37	100	15	108	10	73	25	12.0	1.45	120	106
38	136	20	146	17	98	31	12.0	1.60	204	157
39	150	29	164	22	106	36	13.0	1.40	286	148
1940	180	27	194	31	130	33	18.0	1.30	403	169
41	198	25	210	42	183	35	14.0	1.60	588	218
42	224	35	242	83	136	23	14.5	1.60	1204	218
43	242	40	262	81	150	31	12.0	1.40	972	210
44	188	31	204	66	125	13	15.0	1.30	990	162
45	169	28	183	60	101	22	16.0	1.50	960	152
46	152	28	166	87	58	21	18.0	1.70	1566	99
47	170	26	183	100	68	15	17.5	1.65	1750	112
48	194	27	208	121	73	14	19.0	1.65	2299	120
49	225	26	238	119	90	29	18.5	1.75	2202	158
1950	202	18	211	126	66	19	17.5	1.45	2205	96
51\$	212	16	220	130	70	20	19.0	1.40	2470	98

Louisiana

1924	10	70	45	8	32	5	8.0	.90	64	29
25	13	80	53	12	31	10	10.0	1.20	120	37
26	26	108	80	18	44	18	8.5	1.19	153	52
27	35	134	102	21	52	29	9.0	1.25	189	65
28	30	164	112	17	53	42	7.5	1.50	128	80
29	40	200	140	21	70	49	10.5	1.20	220	84
1930	34	194	131	16	76	39	10.5	1.00	168	76
31	28	178	117	12	61	44	11.0	1.40	132	85
32	28	174	115	10	60	45	11.0	1.10	110	66
33	35	170	120	7	72	41	12.0	1.35	84	97
34	27	164	109	8	57	44	11.0	1.00	88	57
35	25	170	110	9	59	42	12.5	1.10	112	65
36	44	454	271	20	54	197	13.0	1.15	260	62
37	56	505	308	12	66	230	12.0	1.15	144	76
38	78	545	350	14	84	252	12.0	1.15	168	97
39	100	540	370	16	86	268	13.5	1.20	216	103
1940	110	530	375	15	82	278	18.5	1.25	202	102
41	149	560	424	16	89	319	11.5	1.20	184	107
42	155	517	413	72	79	271	12.5	1.25	900	88
43	147	517	405	33	62	310	11.5	1.20	380	74
44	85	403	287	23	34	230	12.0	1.20	276	41
45	99	383	291	23	36	232	14.0	1.30	322	47
46	104	383	296	27	47	222	13.0	1.35	361	63
47	110	391	306	24	38	244	12.5	1.35	300	51
48	119	368	303	35	39	229	14.0	1.20	490	47
49	101	331	267	25	35	207	15.0	1.25	375	44
1950	89	300	239	37	12	190	18.0	1.25	666	15
51\$	107	291	253	33	10	210	17.5	1.10	578	11

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). \$Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

Maryland

Year	Acres Planted			Acres Harvested			Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production	
	Grown Alone	Inter- planted*	Equivalent Solid†	For Beans	For Hay	Tons			Bushels	Tons
	Thousand Acres			Thousand Acres						
1924	33	6	36	5	16	15	11.8	1.40	59	22
25	32	4	34	6	19	9	12.5	1.45	75	28
26	37	2	38	4	22	12	13.5	1.55	54	34
27	36	2	37	3	22	12	14.0	1.60	42	35
28	34	2	35	3	23	9	12.5	1.45	38	33
29	32		32	5	22	5	12.0	1.37	60	30
1930	33		33	5	25	3	6.5	.85	32	21
31	34		34	7	27	0	13.5	1.50	94	40
32	41		41	6	35	0	12.0	1.25	72	44
33	37		37	7	30	0	13.0	1.40	91	42
34	31		31	6	25	0	14.3	1.30	86	32
35	33		33	5	27	1	12.0	1.50	60	40
36	45		45	6	34	5	12.5	1.30	75	44
37	43		43	8	28	7	14.5	1.50	116	42
38	54		54	12	33	9	15.0	1.60	180	53
39	65		65	15	37	13	13.7	1.50	206	56
1940	65		65	19	35	11	13.5	1.50	256	52
41	71		71	20	40	11	12.0	1.40	240	56
42	105		105	48	47	10	15.5	1.60	744	75
43	116		116	36	66	14	9.0	.85	324	56
44	94		94	32	49	13	13.0	1.30	416	64
45	77		77	31	36	10	15.0	1.40	465	50
46	70		70	32	30	8	14.0	1.40	448	42
47	70		70	34	28	8	13.0	1.50	442	42
48	65		65	33	26	6	15.5	1.55	512	40
49	65		65	34	23	8	16.0	1.60	544	37
1950	95		95	67	21	7	17.0	1.45	1139	30
51§	95		95	77	12	6	16.0	1.40	1232	17

Michigan

1924	8		8	2	6	—	13.0	1.30	26	8
25	8		8	2	5	—	13.0	1.35	26	8
26	7		7	2	5	—	14.4	1.25	29	6
27	7		7	2	5	—	8.0	1.05	16	5
28	11		11	2	9	—	15.0	1.35	30	12
29	10		10	2	8	—	10.0	1.10	20	9
1930	7		7	1	6	—	10.0	.80	10	5
31	15		15	3	12	—	12.0	1.30	36	16
32	20		20	9	11	—	13.0	1.35	117	15
33	17		17	8	9	—	12.0	1.30	96	12
34	27		27	8	19	—	10.5	.90	84	17
35	48		48	16	32	—	14.5	1.30	232	42
36	50		50	15	35	—	12.5	1.05	188	37
37	44		44	16	28	—	14.5	1.35	232	38
38	70		70	32	25	13	16.5	1.60	528	40
39	130		130	51	50	29	16.5	1.45	842	72
1940	187		187	77	67	43	16.5	1.50	1270	100
41	149		149	100	23	26	16.0	1.25	1600	29
42	274		274	151	19	104	14.0	1.60	2114	30
43	137		137	103	18	16	16.5	1.35	1700	24
44	140		140	110	17	13	17.0	1.20	1870	20
45	140		140	122	8	10	17.5	1.45	2135	12
46	130		130	86	10	34	15.0	.95	1290	10
47	90		90	76	8	6	17.0	1.20	1292	10
48	70		70	65	3	2	17.5	1.30	1138	4
49	72		72	66	2	4	23.0	1.50	1518	3
1950	122		122	114	4	4	20.0	1.30	2280	5
51§	128		128	120	4	4	20.5	1.70	2460	7

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

Minnesota

(Not estimated prior to 1933)

Year	Grown Alone	Acres Planted Inter- planted*	Equivalent Solid†	Acres Harvested For Beans‡	For Hay	Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production For Beans Thousands	Total Production For Hay Thousands
	— Thousand Acres —	— Thousand Acres —	Bushels	Tons	Bushels	Tons			
1933	15	—	15	15	—	—	1.30	—	20
34	117	—	117	2	115	—	15.0	1.10	30
35	91	—	91	6	85	—	14.0	1.40	84
36	50	—	50	6	44	—	12.0	1.10	72
37	70	—	70	10	60	—	14.0	1.40	140
38	97	—	97	12	80	5	15.0	1.70	180
39	182	—	182	30	136	16	16.8	1.80	504
									245
1940	251	—	251	53	183	15	15.0	1.85	795
41	270	—	270	80	178	12	14.5	1.60	1160
42	413	—	413	273	41	99	13.0	1.50	5549
43	343	—	343	244	44	55	13.5	1.50	3294
44	352	—	352	260	81	11	15.4	1.40	4004
45	54	—	514	452	46	16	14.5	1.50	6554
46	657	—	657	610	40	7	17.5	1.30	10675
47	992	—	992	920	30	42	15.0	1.40	13800
48	863	—	863	844	13	6	18.5	1.70	15614
49	734	—	734	709	18	7	18.0	1.70	12762
1950	1200	—	1200	1148	38	14	15.5	1.40	17794
51§	1140	—	1140	1077	13	50	17.5	1.40	18848
									18

Mississippi

1924	45	58	80	21	48	11	8.0	1.00	168	48
25	54	61	91	21	59	11	10.0	1.05	210	62
26	54	46	82	12	60	10	9.5	1.25	114	75
27	125	70	167	19	127	21	10.0	1.30	190	165
28	67	65	106	11	77	18	9.5	1.30	104	100
29	74	68	115	12	85	18	9.0	1.30	108	110
1930	85	75	130	12	103	15	6.5	1.00	78	103
31	132	131	211	25	148	38	9.0	1.35	225	200
32	148	138	231	21	166	44	8.0	1.15	168	191
33	126	140	210	17	153	40	9.0	1.25	153	191
34	169	157	263	26	192	45	8.2	1.13	213	217
35	203	223	337	37	229	71	8.5	1.05	314	240
36	274	481	514	41	257	216	6.5	1.05	266	270
37	206	442	427	24	196	207	8.5	1.10	204	216
38	319	495	566	29	279	258	8.5	1.20	246	335
39	302	470	537	30	247	260	9.5	1.20	285	296
1940	332	428	546	39	268	239	10.0	1.25	390	335
41	448	364	639	71	290	269	10.5	1.25	746	362
42	466	339	636	191	223	222	14.0	1.15	2674	256
43	466	353	642	128	295	219	12.0	1.05	1536	310
44	270	222	381	76	190	115	12.0	1.20	912	228
45	211	166	294	62	138	94	13.0	1.25	806	172
46	222	153	298	70	143	85	15.0	1.25	1050	179
47	233	165	315	95	130	90	14.0	1.30	1330	169
48	261	124	323	133	103	87	18.0	1.35	2394	139
49	274	90	319	108	96	115	16.5	1.25	1782	120
1950	504	91	550	358	131	61	25.0	1.35	8950	177
51§	600	70	635	42F	127	83	14.0	1.20	5950	152

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

Additional copies of the Soybean Blue Book may be purchased from the American Soybean Association, Hudson, Iowa, for \$1.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

Missouri

Year	Acres Planted		Acres Harvested		Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production For Hay	
	Grown Alone	Inter-planted*	For Beans†	For Hay			Bushels	Tons
	Thousand Acres		Thousand Acres					
1924	165	—	165	48	112	5	7.5	1.20
25	157	—	157	44	110	3	8.5	1.10
26	240	—	220	53	161	6	7.5	1.20
27	252	—	252	63	181	8	8.0	1.20
28	281	—	281	76	197	8	9.5	1.20
29	317	86	360	32	223	45	8.9	1.00
1930	422	50	447	128	288	21	7.0	.85
31	536	25	548	121	420	7	9.0	1.20
32	616	15	623	106	563	14	10.0	1.30
33	520	20	510	167	360	13	9.0	1.10
34	720	46	743	142	564	37	5.5	.70
35	450	20	460	142	300	18	7.5	1.10
36	360	40	380	45	186	149	5.0	.60
37	290	70	235	18	155	22	11.0	1.25
38	350	80	390	60	268	62	13.0	1.40
39	455	74	492	89	343	60	13.0	1.40
1940	564	80	604	109	401	94	13.0	1.40
41	580	100	620	187	250	193	11.5	1.15
42	700	140	770	471	112	187	15.0	1.40
43	742	120	802	557	151	94	15.5	1.30
44	734	84	776	601	120	55	17.5	1.30
45	844	84	886	720	89	77	13.0	1.20
46	802	84	844	718	67	59	20.0	1.40
47	914	90	959	825	67	67	12.0	1.00
48	823	82	864	795	34	35	20.0	1.60
49	897	112	953	857	48	48	21.0	1.55
1950	1225	48	1249	1209	25	15	23.0	1.35
51§	1396	44	1418	1290	28	100	20.0	1.35

Nebraska

(Not Estimated Prior to 1929)

1929	2	—	2	—	2	—	—	1.40	—	3
1930	3	—	3	—	3	—	—	1.20	—	4
31	4	—	4	—	4	—	—	1.10	—	4
32	4	—	4	—	4	—	—	1.40	—	6
33	3	—	3	—	3	—	—	1.35	—	4
34	7	—	7	—	7	—	—	.75	—	5
35	9	—	9	—	9	—	—	.95	—	9
36	3	—	3	—	3	—	—	.80	—	2
37	4	—	4	—	4	—	—	1.00	—	4
38	7	—	7	1	5	1	—	12.0	1.25	12
39	10	—	10	2	5	3	10.0	1.20	20	6
1940	20	—	20	4	13	3	14.0	1.20	56	16
41	32	—	32	20	5	7	11.0	1.10	220	6
42	55	—	55	40	4	11	15.0	1.15	600	5
43	85	—	85	73	2	10	12.0	1.15	876	2
44	22	—	22	19	1	2	17.8	1.25	338	1
45	20	—	20	17	2	1	18.0	1.25	306	2
46	25	—	25	23	1	1	21.0	1.25	483	1
47	35	—	35	32	1	2	14.5	1.10	464	1
48	26	—	26	23	1	2	23.0	1.60	529	2
49	24	—	24	22	1	1	22.0	1.20	454	1
1950	50	—	50	50	—	—	24.0	—	1200	—
51§	60	—	60	58	—	2	22.0	—	1276	—

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

North Carolina

Year	Acres Planted		Acres Harvested		Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production			
	Grown Alone	Inter-planted*	For Beans†	For Hay			For Beans	Tons		
1924	120	90	165	75	70	20	15.5	.90	1162	63
25	140	110	195	80	80	35	14.5	.70	1160	56
26	160	120	220	85	95	40	12.5	1.00	1062	95
27	140	130	205	80	108	17	15.0	1.00	1200	108
28	150	120	210	80	100	30	13.5	.95	1080	95
29	170	150	245	92	120	33	11.5	.95	1058	114
1930	230	220	340	128	150	62	10.5	.85	1344	128
31	240	250	365	134	155	76	13.5	1.00	1809	155
32	230	240	350	115	150	85	10.0	.80	1150	120
33	205	210	310	108	135	67	9.5	.95	1026	128
34	220	212	326	112	152	62	10.5	1.05	1176	160
35	220	280	360	115	165	80	12.5	.95	1438	157
36	260	390	455	144	196	115	12.0	.95	1728	186
37	242	410	447	148	174	125	12.0	1.10	1776	191
38	224	430	539	162	210	167	11.5	1.05	1863	220
39	328	500	578	160	224	194	11.0	1.10	1760	246
1940	360	450	585	190	180	215	12.0	1.10	2280	198
41	371	477	609	218	183	205	10.0	1.12	2180	205
42	434	439	654	268	161	225	13.0	1.20	3484	193
43	495	430	710	257	220	233	9.0	1.00	2313	220
44	361	348	535	201	203	131	10.5	1.10	2110	223
45	368	299	518	216	191	111	12.5	1.15	2700	220
46	342	254	469	212	150	107	13.5	1.10	2562	165
47	380	229	494	233	144	117	15.0	1.15	3495	166
48	384	208	488	264	137	87	13.5	1.10	3564	151
49	380	206	483	2 4	116	103	16.0	1.25	4224	145
1950	410	206	513	297	122	94	16.0	1.10	4752	134
51§	439	185	531	300	132	99	16.5	1.20	4950	158

Ohio

1924	66	—	66	20	44	2	11.5	1.20	230	53
25	57	—	57	17	38	2	14.0	1.30	238	49
26	61	—	61	18	41	2	11.5	1.40	207	57
27	72	—	72	21	49	2	14.5	1.40	304	69
28	84	—	84	24	58	2	15.0	1.40	360	81
29	92	—	92	23	66	3	15.1	1.41	347	93
1930	112	—	112	31	77	4	14.0	.90	434	69
31	157	—	157	47	105	5	20.0	1.50	940	158
32	156	—	156	34	117	5	15.5	1.35	527	158
33	148	—	148	33	110	5	16.0	1.35	528	143
34	203	—	203	41	155	7	17.0	1.30	697	202
35	355	—	355	124	220	11	21.0	1.65	2604	363
36	330	—	330	132	162	36	15.5	1.15	2046	186
37	380	—	380	171	190	19	19.0	1.55	3249	294
38	480	—	480	281	161	38	21.0	1.65	5901	266
39	864	—	864	500	310	54	21.1	1.68	10550	521
1940	1020	—	1020	561	347	112	16.0	1.30	8976	451
41	898	—	898	656	215	27	20.0	1.55	13120	333
42	1365	—	1365	1051	150	164	22.5	1.65	23648	248
43	1379	—	1379	1213	138	28	21.0	1.60	25473	221
44	1393	—	1393	1243	127	23	17.6	1.25	21877	159
45	1184	—	1184	1077	83	24	18.0	1.55	19386	129
46	971	—	971	903	53	15	18.0	1.55	16254	82
47	1000	—	1000	950	42	8	18.5	1.55	17575	65
48	940	—	940	908	24	8	20.5	1.60	18614	38
49	902	—	902	858	36	8	24.0	1.70	20592	61
1950	1136	—	1136	1090	29	17	22.5	1.50	24525	44
51§	1159	—	1159	1124	18	17	19.0	1.35	21356	24

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

Pennsylvania

Year	Acres Planted		Acres Harvested		Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production For Beans	
	Grown Alone	Inter-planted*	For Beans†	For Hay			For Hay	Thousands
	Thousand Acres		Thousand Acres				Bushels	Tons
1924	7	—	7	—	7	1.45	—	10
25	6	—	6	—	—	1.55	—	9
26	8	—	8	—	—	1.40	—	11
27	9	—	9	—	—	1.60	—	14
28	9	—	9	—	—	1.65	—	15
29	10	—	10	—	1	1.45	—	13
1930	11	—	11	—	1	1.10	—	11
31	15	—	15	—	1	1.50	—	21
32	18	—	18	—	1	1.45	—	25
33	23	—	23	—	1	1.55	—	34
34	24	—	24	2	20	1.65	1.60	33
35	31	—	31	2	26	3	1.70	33
36	41	—	41	3	34	4	1.50	45
37	42	—	42	5	33	4	1.60	53
38	50	—	50	6	37	7	1.75	63
39	73	—	73	11	48	14	1.55	170
1940	82	—	82	14	54	14	1.50	224
41	77	—	77	15	49	13	1.45	218
42	108	—	108	35	54	19	1.70	595
43	127	—	127	45	65	17	1.55	585
44	119	—	119	27	64	18	1.40	488
45	71	—	71	23	23	15	1.50	35
46	60	—	60	21	30	9	1.60	326
47	50	—	50	17	24	9	1.60	272
48	46	—	46	16	21	9	1.60	256
49	42	—	42	16	19	7	1.70	272
1950	48	—	48	24	19	5	1.65	420
51*	43	—	43	22	17	4	1.65	374
								28

South Carolina

1924	9	28	23	7	9	7	7.0	.70	49	6
25	18	40	38	8	21	9	5.5	.30	44	6
26	14	34	35	7	18	10	5.0	1.00	35	18
27	14	40	34	7	17	10	6.0	.80	42	14
28	14	35	32	7	17	8	9.0	.75	63	13
29	11	40	34	7	20	7	7.0	.80	49	16
1930	20	50	45	9	23	13	6.5	.80	58	18
31	26	60	56	10	30	16	5.5	.75	55	22
32	20	55	48	9	24	15	7.0	.80	62	19
33	25	50	50	9	23	18	6.5	.75	58	17
34	13	34	30	4	15	11	6.0	.80	24	12
35	16	39	36	5	16	15	7.0	.95	35	15
36	26	60	56	7	20	29	6.5	.85	46	17
37	18	63	50	6	21	23	6.5	1.05	39	22
38	30	85	72	10	27	35	6.5	.80	65	22
39	41	106	94	13	33	48	6.7	.90	87	30
1940	32	94	79	11	29	39	6.5	.85	72	25
41	48	100	98	10	35	53	7.5	.95	75	33
42	48	87	92	12	33	47	8.0	.95	96	31
43	55	88	99	15	25	48	6.5	.80	104	28
44	35	75	73	12	27	34	7.0	.85	84	23
45	28	60	58	8	20	20	7.0	.90	56	18
46	36	70	71	16	24	31	10.0	.90	160	22
47	45	70	80	17	22	41	10.0	.90	170	20
48	65	76	103	23	32	48	10.0	1.05	230	34
49	57	86	100	25	35	40	11.0	1.00	275	35
1950	94	104	146	62	23	61	12.0	1.00	744	23
51*	114	102	165	83	21	61	12.5	1.00	1038	21

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

South Dakota

(Not Estimated Prior to 1939)

Year	Grown Alone	Acres Planted Inter- planted*	Equivalent Solid;	Acres Harvested For Beans†	For Hay	Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production For Beans	Total Production For Hay	
	Thousand	Acres	2	Thousand	Acres	2	Bushels	Tons	Bushels	Tons
1939	2	—	—	—	—	—	—	—	—	—
1940	4	—	4	1	2	1	12.0	1.20	12	2
41	6	—	6	2	3	1	12.0	1.00	24	3
42	17	—	17	13	2	2	16.0	1.10	208	2
43	27	—	27	20	2	5	12.0	1.15	240	2
44	11	—	11	9	1	1	17.0	1.40	153	1
45	15	—	15	13	1	1	14.0	1.35	182	1
46	21	—	21	19	1	1	14.5	1.40	276	1
47	55	—	55	50	2	3	11.5	1.00	575	2
48	33	—	33	31	1	1	18.0	1.60	554	2
49	31	—	31	29	1	1	13.0	1.20	377	1
1950	72	—	72	70	1	1	12.5	1.10	875	1
51‡	63	—	63	60	1	2	14.5	1.20	870	1

Tennessee

1924	160	50	185	10	153	22	8.5	1.08	85	165
25	150	40	170	8	142	20	7.5	.75	60	106
26	200	60	230	12	188	30	8.3	1.10	100	207
27	14	56	202	9	165	28	8.0	.95	72	157
28	165	58	194	16	150	28	8.0	1.05	128	158
29	180	62	211	17	164	30	7.5	1.10	128	180
1930	190	64	222	20	172	30	7.5	.72	150	124
31	190	90	235	26	174	35	7.5	1.00	195	174
32	160	100	210	21	143	46	7.0	.95	147	136
33	150	83	192	19	133	40	7.5	1.08	142	144
34	130	75	168	17	113	38	7.6	1.05	129	119
35	128	90	143	18	108	47	6.5	1.00	117	108
36	162	170	247	17	142	88	7.0	.90	119	128
37	154	214	261	20	123	108	7.5	1.25	150	166
38	188	245	310	21	136	151	8.0	1.30	168	177
39	170	290	315	18	120	177	8.3	1.25	149	150
1940	167	298	316	19	122	175	8.5	1.30	162	159
41	175	288	319	20	140	159	9.5	1.38	190	189
42	224	274	361	55	141	165	12.0	1.35	660	190
43	276	304	428	52	188	188	13.5	1.25	702	235
44	240	255	368	51	165	152	15.0	1.15	765	190
45	216	196	314	49	110	155	14.5	1.35	710	148
46	186	210	291	45	100	146	18.0	1.35	810	135
47	206	210	310	60	100	150	15.5	1.30	930	130
48	217	206	320	67	99	154	20.0	1.30	1340	129
49	217	194	314	125	79	110	20.0	1.50	2500	118
1950	248	163	330	168	70	92	21.0	1.30	3528	91
51‡	310	142	381	183	99	99	17.5	1.20	3202	119

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). ‡Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN PRODUCTION—(Continued)

SOYBEANS: Acreage, Yield and Production 1924-51 by States

Virginia

Year	Acres Planted			Acres Harvested			Grazed or Plowed Under	Average Yield Per Acre Harv. For Beans	Total Production For Hay	
	Grown Alone	Inter-planted*	Equivalent Solid†	For Beans;	For Hay	Bushels			Bushels	Tons
	Thousand Acres			Thousand Acres						
1924	88	24	100	15	74	11	13.0	1.00	195	74
25	106	28	120	16	92	12	11.0	.95	176	87
26	132	30	147	17	116	14	14.0	1.20	238	139
27	114	26	127	18	100	9	14.5	1.30	261	130
28	114	25	126	20	98	8	13.0	1.20	260	118
29	114	30	129	21	94	14	13.0	1.15	273	108
1930	120	31	136	17	79	40	7.0	.70	119	55
31	108	30	123	19	90	14	14.0	1.30	266	117
32	108	31	124	18	84	22	9.5	.75	171	63
33	97	32	113	18	82	13	12.5	1.20	225	98
34	92	34	109	21	77	11	13.5	1.15	284	89
35	96	38	115	25	76	14	14.0	1.20	350	91
36	115	56	143	37	81	25	11.0	1.00	407	81
37	120	72	156	37	87	32	13.5	1.35	500	117
38	116	86	159	33	91	35	12.5	1.30	412	118
39	128	98	177	41	89	47	15.0	1.35	615	120
1940	128	105	180	49	93	38	15.5	1.35	760	126
41	132	86	175	49	91	36	12.5	1.20	612	109
42	185	99	235	112	70	53	15.5	1.40	1736	98
43	231	102	282	93	115	74	11.0	1.05	1023	121
44	162	105	214	66	76	72	15.0	1.20	990	91
45	146	87	190	79	48	63	16.0	1.40	1264	67
46	143	90	188	67	47	74	16.5	1.40	1106	66
47	150	103	202	95	40	67	15.0	1.25	1425	50
48	140	100	190	106	29	55	16.5	1.45	1749	42
49	147	112	203	117	23	63	18.0	1.40	2106	32
1950	202	54	229	152	25	52	10.0	1.35	2888	34
51§	220	56	248	166	34	48	18.0	1.30	2988	44

Wisconsin

1924	38	—	38	3	35	—	9.0	1.40	27	49
25	20	—	20	2	18	—	9.0	1.55	18	28
26	19	—	19	3	16	—	11.0	1.40	33	22
27	14	—	14	1	13	—	10.0	1.45	10	19
28	22	—	22	2	20	—	12.5	1.70	25	34
29	16	—	16	2	14	—	11.0	1.50	22	21
1930	14	—	14	2	12	—	11.5	1.20	23	14
31	21	—	21	2	19	—	10.0	1.30	20	25
32	89	—	89	3	86	—	12.0	1.40	36	120
33	115	—	115	3	112	—	11.5	1.50	34	168
34	251	—	251	2	249	—	12.0	1.25	24	311
35	181	—	181	2	179	—	13.0	1.70	26	304
36	101	—	101	2	86	13	10.0	1.15	20	99
37	160	—	160	3	141	16	13.0	1.40	39	197
38	135	—	135	5	120	10	16.0	2.00	80	240
39	173	—	173	11	140	22	16.0	1.70	176	238
1940	215	—	215	25	162	28	17.5	2.00	438	324
41	168	—	168	37	105	26	15.0	1.60	555	168
42	155	—	155	60	55	40	13.0	1.85	780	102
43	105	—	105	63	35	7	14.5	1.85	914	65
44	103	—	103	42	53	8	12.8	1.45	538	77
45	86	—	86	37	43	6	15.0	1.80	555	77
46	67	—	67	33	28	6	12.5	1.50	412	42
47	50	—	50	26	19	5	13.0	1.75	328	33
48	40	—	40	15	20	5	13.0	1.40	195	28
49	48	—	48	15	31	2	16.5	1.60	248	50
1950	85	—	85	33	45	7	14.0	1.65	462	74
51§	63	—	63	44	13	6	14.5	1.70	638	22

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN STOCKS

SOYBEANS: STOCKS IN VARIOUS POSITIONS, UNITED STATES, QUARTERLY DATES, 1942-51

Date	On Farms	Int. Mills Elev. & Whses.	Processing Plants	Terminals	Steel and	Total
					Wooden Bins	
					Thousand Bushels	
1942: Oct. 1	3,100	928	1,120	861		6,009
1943: Jan. 1	88,246	29,505	34,938	3,519	13,500	169,708
April 1	54,399	17,094	28,675	3,187	13,000	116,355
July 1	13,733	5,085	17,246	2,864	8,447	47,375
Oct. 1	4,555	668	4,763	732	1,819	12,537
1944: Jan. 1	56,211	36,276	44,650	23,719	4,951	165,807
April 1	39,080	17,317	35,203	12,790	4,174	108,564
July 1	10,606	4,970	23,712	4,682	3,824	47,794
Oct. 1	4,612	1,128	5,214	1,323	1,876	14,153
1945: Jan. 1	42,330	40,137	47,708	24,446	3,523	158,144
April 1	27,173	30,012	32,606	16,508	2,762	109,661
July 1	7,598	6,031	26,387	5,401	957	46,374
Oct. 1	2,928	447	3,548	815		7,738
1946: Jan. 1	43,267	39,572	46,255	24,423	400	153,917
April 1	29,872	18,087	37,299	12,666	25	97,949
July 1	6,802	3,526	23,356	3,424		37,108
Oct. 1	2,118	268	1,783	157		4,326
1947: Jan. 1	37,374	36,145	59,610	21,704		154,833
April 1	25,475	19,633	41,744	13,689		100,541
July 1	6,389	3,389	28,004	2,258		40,040
Oct. 1	2,236	244	2,813	68		5,361
1948: Jan. 1	51,679	28,080	48,900	13,294		141,953
April 1	33,110	10,845	36,894	7,613		88,462
July 1	4,311	3,238	22,986	1,244		31,779
Oct. 1	1,838	128	468	130		2,564
1949: Jan. 1	75,504	36,805	53,416	14,804		180,529
April 1	52,279	19,262	36,305	7,206		115,052
July 1	9,505	9,134	14,333	3,294		40,266
Oct. 1	2,147	213	285	462		3,107
1950: Jan. 1	60,853	35,203	66,508	16,133		178,697
April 1	45,778	17,517	47,991	10,241		121,527
July 1	7,064	4,359	28,478	6,190		46,091
Oct. 1	1,204	244	502	920		2,870
1951: Jan. 1	97,671	38,688	77,163	13,915		227,437
April 1	46,114	20,147	62,798	12,513		141,572
July 1	9,620	4,362	33,367	4,201		51,550
Oct. 1	2,555	254	552	670		4,031

Source of data: U. S. Dept. of Agriculture (B.A.E., P.M.A. and C.C.C.) and Bureau of the Census.

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SOYBEAN OIL MEAL PRODUCTION

SOYBEAN OIL MEAL AND CAKE: SUPPLY AND UTILIZATION IN THE UNITED STATES, 1924-50

Year Beginning October 1	Supply 1,000 Tons			Utilization 1,000 Tons		
	Domestic Production	Imports	Total Supply	Exports	Food, Industry and other Non-feed ^b	Feed
1924-25	7.6	18.3	25.9	—	—	25.9
1925-26	8.6	19.8	28.4	—	—	28.4
1926-27	8.3	23.9	32.2	—	—	32.2
1927-28	13.7	47.7	61.4	—	—	61.4
1928-29	21.5	69.5	91.0	—	—	91.0
1929-30	40.7	73.5	114.2	—	—	114.2
1930-31	98.6	24.0	122.6	—	—	122.6
1931-32	114.7	18.6	133.3	—	—	133.3
1932-33	84.3	28.3	112.6	—	—	112.6
1933-34	78.9	25.0	98.9	—	—	98.9
1934-35	220.4	64.2	284.6	—	18.0	266.6
1935-36	613.1	20.0	633.1	—	19.0	614.1
1936-37	495.8	55.7	551.5	—	20.0	531.5
1937-38	724.1	15.5	739.6	—	21.0	718.6
1938-39	1,064.4	12.3	1,076.7	35.0	22.0	1,019.7
1939-40	1,348.8	12.1	1,360.9	62.3	23.0	1,275.6
1940-41	1,543.4	8.1	1,551.5	25.4	35.0	1,491.1
1941-42	1,844.9	0	1,844.9	19.7	40.1	1,785.1
1942-43	3,200.3	0	3,200.3	20.9	105.5	3,073.9
1943-44	3,446.0	0	3,446.0	16.1	107.1	3,322.8
1944-45	3,698.5	0	3,698.5	10.0	61.4	3,627.1
1945-46	3,837.3	—	3,837.3	.9	181.4	3,655.0
1946-47	4,086.4	—	4,086.4	141.7	199.3	3,745.4
1947-48	3,832.7	0	3,832.7	95.7	353.8	3,383.2
1948-49	4,330.5	3.2	4,333.7	150.1	27.9	4,155.7
1949-50	4,581.9	26.1	4,608.0	47.4	47.1	4,513.5
1950-51**	5,887.6	32.8	5,920.4	181.1	14.3	5,725.0

*Estimated.

**Preliminary.

Source of data: Bureau of Agricultural Economics, U. S. Department of Agriculture.

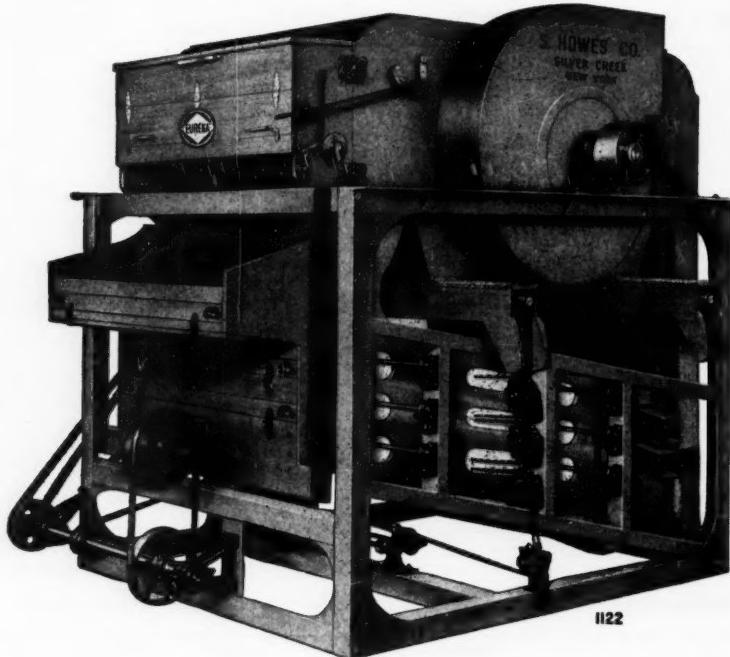
PRODUCTION OF SOYBEAN OIL MEAL BY MONTHS AND CROP YEARS, 1946-50 (1,000 tons)

	1946-47	1947-48	1948-49	1949-50	1950-51*
October	262.6	273.3	328.5	414.5	453.3
November	363.0	352.0	383.0	406.4	536.1
December	377.6	365.2	395.3	407.2	576.0
January	412.0	393.8	398.7	401.1	589.8
February	385.2	355.7	367.8	363.3	528.8
March	397.5	350.9	403.9	422.4	580.3
April	382.3	337.3	376.8	403.5	511.3
May	359.7	313.3	364.2	394.2	498.7
June	319.4	299.3	355.9	323.3	416.8
July	325.1	296.8	357.6	364.0	411.8
August	268.5	253.5	318.9	363.7	440.6
September	233.5	240.8	279.9	318.3	344.1
TOTALS.	4,086.4	3,832.7	4,330.5	4,581.9	5,887.6

*Preliminary

Source of data: Bureau of Agricultural Economics, U. S. Department of Agriculture.

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PRODUCTION OF PROTEIN CONCENTRATE

**PRODUCTION OF SPECIFIED PROTEIN CONCENTRATES IN THE UNITED STATES,
YEAR BEGINNING OCTOBER 1, 1937-41 AVERAGE AND 1945-1950**

Protein Concentrate	Average 1937-41	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51*
Thousand Tons							
Soybean cake and meal	1,305	8,837	4,086	3,833	4,330	4,582	5,888
Linseed cake and meal	616	562	374	625	687	689	730
Cottonseed cake and meal	2,057	1,410	1,428	2,016	2,416	2,486	1,713
Peanut cake and meal	67	87	122	123	117	137	145
Copra cake and meal [†]	76	68	194	170	118	136	138
Gluten feed and meal [†]	690	802	1,040	799	849	926	966
Tankage and meat scraps	656	729	726	790	817	826	851
Fish cake and meal	194	188	183	188	189	218	215
Dried milk products ^{**}	142	100	115	90	95	100	85
Other milk products [†]	1,829	1,360	1,300	1,260	1,280	1,300	1,250
TOTAL	7,632	9,143	9,568	9,894	10,897	11,400	11,981

*Preliminary.

**Dried and concentrated skim milk, buttermilk, and whey manufactured for animal feed.

†Dry equivalent of skim milk, buttermilk, whey, and whole milk estimated fed on farms.

Source of data: Bureau of Agricultural Economics, U. S. Department of Agriculture.

**PROTEIN CONCENTRATES: ESTIMATED USE FOR FEED IN THE UNITED STATES,
YEAR BEGINNING OCTOBER 1, 1937-41 AVERAGE AND 1945-1951***

Protein Concentrate	Average 1937-41	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51 **	1951-52 †
Thousands of tons								
Soybean cake and meal	1,258	3,655	3,745	3,383	4,156	4,514	5,725	5,400
Linseed cake and meal	481	563	370	606	620	670	720	650
Cottonseed cake and meal	1,958	1,433	1,434	1,953	2,271	2,372	1,925	2,550
Peanut cake and meal	74	90	98	122	96	93	120	100
Copra cake and meal	134	69	190	177	160	186	210	200
Gluten feed and meal	690	802	1,040	799	848	926	966	975
Tankage and meat scraps	728	745	740	823	854	842	875	900
Fish cake and meal	235	194	191	213	235	261	265	265
Dried milk products [†]	142	100	115	90	95	100	85	80
Other milk products [†]	1,829	1,360	1,300	1,260	1,280	1,300	1,250	1,225
TOTAL	7,529	9,011	9,223	9,426	10,615	11,264	12,041	12,345

*Domestic production plus imports, minus exports, and minus estimated utilization for food, industry and other nonfeed uses.

**Preliminary.

†Forecast on basis of October 1951 indications.

‡Dried and concentrated skim milk, buttermilk, and whey manufactured for animal feed.

§Dry equivalent of skim milk, buttermilk, whey, and whole milk estimated fed on farms.

Source of data: Bureau of Agricultural Economics, U. S. Department of Agriculture.

U. S. SOY FLOUR PRODUCTION

Soybeans Used in the Production of Soy Flour and Grits, Year Beginning October 1, 1942-51*

1,000 bu.

	Low fat	Full fat
1942-43	4,645	1,875
1943-44	4,470	1,605
1944-45	1,865	910
1945-46	8,278	1,081
1946-47	9,193	440
1947-48	17,119	162
1948-49	3,445	198
1949-50	3,715	224
1950-51	2,915	232

* Estimated from reports on production of soy flour on basis that one bushel of soybeans will yield either 39 lbs. of low fat flour or 48 lbs. of full fat flour.

PRODUCTION OF SOYBEAN OIL

SOYBEAN OIL, CRUDE BASIS: PRODUCTION, TRADE, STOCKS DECEMBER 31, AND APPARENT DISAPPEARANCE, 1910-51

Year	Factory Production	Imports*	Exports	Re-exports	Net Imports or Net Exports (-)	Factory and Warehouse Stocks Dec. 31	Apparent Disappearance
	1,000 lb. N. A.	1,000 lb. N. A.	1,000 lb. N. A.	1,000 lb.	1,000 lb. N. A.	1,000 lb. N. A.	1,000 lb.
1910	20,152	—	—	—	—	—	—
1911	32,242	—	—	—	—	—	—
1912	24,959	—	184	—	—	—	—
1913	14,221	—	36	—	—	—	—
1914	12,555	—	3	—	—	—	—
1915	21,335	—	76	—	—	—	—
1916	145,409	—	2,063	—	—	—	—
1917	264,926	—	3,977	—	—	—	—
1918	335,984	—	545	—	—	—	—
1919	195,808	**27,715	17,823	—	65,830	—	—
1920	112,214	43,512	3,228	65,474	31,243	103,061	—
1921	17,283	1,944	511	14,828	11,141	34,930	—
1922	751	17,294	2,458	419	14,417	5,480	20,829
1923	1,404	41,679	1,856	172	40,151	9,451	37,584
1924	950	9,125	2,264	277	6,584	2,836	14,149
1925	2,520	19,493	520	1,748	17,225	2,455	20,123
1926	2,646	30,712	1,567	545	28,600	7,723	25,981
1927	3,088	14,915	5,444	1,184	8,287	6,291	12,807
1928	4,716	13,116	7,142	852	5,122	6,073	10,056
1929	11,009	19,489	7,967	129	11,393	15,631	12,844
1930	14,387	8,348	4,962	517	2,869	15,178	17,709
1931	39,150	4,916	4,551	898	—533	18,650	35,145
1932	39,445	405	2,647	46	—2,288	16,552	39,255
1933	26,533	3,669	1,569	—	2,100	13,534	31,651
1934	35,366	2,829	2,040	—	789	19,007	30,682
1935	105,056	14,249	4,111	—	10,138	31,090	103,111
1936	225,297	†4,217	3,954	—	263	34,416	222,234
1937	194,411	†22,259	5,748	—	16,611	62,317	183,021
1938	323,343	†2,856	6,412	—	—3,556	76,709	505,395
1939	457,550	4,126	12,111	—	—7,985	71,562	454,712
1940	533,224	4,849	15,954	—	—11,105	94,555	499,126
1941	585,629	759	12,066	—	—11,307	113,020	555,857
1942	761,582	—	19,428	—	—19,428	144,139	711,035
1943	1,233,751	‡	57,351	—	—57,351	186,566	1,133,973
1944	1,245,873	—	79,613	—	—79,613	123,323	1,229,603
1945	1,391,650	‡	40,463	—	—40,463	209,347	1,265,163
1946	1,454,339	—	90,444	—	—90,444	163,937	1,409,805
1947	1,542,984	71	109,760	—	—109,689	146,208	1,451,024
1948	1,604,320	365	85,669	—	—85,304	193,199	1,472,025
1949	1,859,066	239	363,981	—	—363,742	150,101	1,532,895
1950‡	2,073,140	‡	299,790	—	—299,790	154,065	1,769,385
1951 Jan.-Sept.‡	1,808,249	—	401,158	—	—401,158	¶170,777	1,390,379

Prepared by Bureau of Agricultural Economics, U. S. Department of Agriculture.

Compiled from reports of the Bureau of the Census. No domestic production reported prior to 1922. Stocks and trade Jan. 1942-Dec. 1948 are crude oil plus refined oil converted to crude basis by dividing by 0.94. Trade figures not separately reported as crude and refined before July 1941. Apparent disappearance computed from data on production, trade, and stocks. *Imports for consumption 1910, 1911, and beginning January 1934. ** July-December. Not separately reported before July 1919. †Excludes "special imports" entered free of duty for subsequent export. ‡Less than 500 pounds. ¶Preliminary. §September 30.

LEWIS SUPPLY CO.

477 So. Main St. Memphis 2, Tenn.

PHONE 5-6871

SUPPLIES AND EQUIPMENT FOR SOYBEAN INDUSTRY

FATS AND OILS PRODUCTION

FATS AND OILS: PRODUCTION FROM DOMESTIC MATERIALS AND OIL EQUIVALENT OF EXPORTED OILSEEDS, UNITED STATES, YEAR BEGINNING OCTOBER, 1937-51

Item	Average						
	1937-38	1938-39	1947	1948	1949	1950 1/	1951 2/
Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.
Butter (actual weight) _____	2,220	1,761	1,494	1,663	1,710	1,486	1,445
Lard and rendered pork fat _____	2,091	2,514	2,317	2,498	2,630	2,847	2,925
Edible beef fats 3/ _____	225	197	142	170	168	158	165
Total, edible animal fats _____	4,536	4,472	3,954	4,332	4,508	4,491	4,535
Corn oil _____	173	221	201	225	242	243	
Cottonseed oil _____	1,456	1,179	1,357	1,735	1,788	1,220	
Edible olive oil _____	6	5	3	8	2	2	
Peanut oil _____	87	4/128	141	146	182	184	
Peanuts (shelled), oil equivalent of exports for crushing abroad 5/ _____		10	119	214	32	21	
Soybean oil _____	500	1,344	1,534	1,807	1,935	2,451	
Soybeans, oil equivalent of exports 6/ _____	31	24	28	225	128	272	
Total, edible vegetable oils _____	2,253	2,911	3,383	4,358	4,310	4,392	4,700
Inedible tallow and greases _____	1,303	1,782	1,980	2,101	2,147	2,338	
Fish, whale and seal oils 7/ _____	220	170	133	111	158	164	
Total, soap fats and oils _____	1,523	1,952	2,113	2,212	2,305	2,502	2,500
Linseed oil 8/ _____	361	579	689	731	725	808	
Flaxseed oil equivalent of exports 9/ _____	—	10/	10/	92	49	78	
Tung oil _____	2	8	16	16	27	12	
Total, drying oils _____	363	588	706	839	801	898	800/12
Other fats and oils 11/ _____	21	36	44	28	23	31	25
Grand total _____	8,696	9,959	10,200	11,763	11,947	12,315	12,560

Compiled by the Bureau of Agricultural Economics from reports of Bureau of the Census, Fish and Wildlife Service, and U. S. Department of Agriculture. Totals computed from unrounded numbers. 1/Preliminary. 2/Forecasts based on December 1 crop conditions and other indications. 3/Edible tallow, oleo stock, oleo oil, and oleostearine. Beginning January 1949, use of edible tallow in pressing is subtracted from reported production of tallow. 4/Excludes oil equivalent of Argentine peanuts imported in 1944. 5/43 percent of actual weight of peanuts. 6/9 pounds per bushel, 1937-46; 9.5 pounds in 1947; 9.8 pounds in 1948 and 1949. 7/Excludes cod oil and fish liver oils. 8/Excludes oil equivalent of imported flaxseed. 9/19.8 pounds per bushel. 10/Less than 500,000 pounds. 11/Neats'-foot oil, wool grease, cod and fish-liver oils, and vegetable oils not reported separately by kind. 12/ Includes castor oil.

Chicago 4, Ill.
Wabash 2-7322 TWX 623
3832 Board of Trade Bldg.

Buffalo 2, New York
Madison 5682 TWX 360
925 Marine Trust Building

The Nellis Feed Co.
Brokers of Soybean Oil Meal

Kansas City 6, Mo.
Harrison 1801 TWX 144
316 Ten Sixteen Baltimore Bldg.

St. Louis 2, Mo.
Chestnut 1122 TWX 238
405 Merchants Exch.

SOYBEAN OIL UTILIZATION

SOYBEAN OIL: UTILIZATION BY CLASSES OF PRODUCTS, UNITED STATES, 1931-51

Year	Food products					Nonfood products						
	Margarine	Shorten-ing	Other*	Total	Soap	Paint and varnish	Other drying-oil products†	Miscellaneous non-food products‡	Loss, oil in feet‡	Total	Total	Total domestic disappearance
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
1931	622	10,869	7,261	18,752	3,816	6,256	3,773	923	1,625	16,393	35,145	
1932	3	4,889	14,166	19,058	5,571	7,485	5,189	844	1,158	20,197	39,255	
1933	7	489	9,155	9,649	4,235	8,568	7,150	1,182	867	22,002	31,651	
1934	24	2,738	10,284	13,043	1,354	10,451	4,062	949	823	17,639	30,682	
1935	1,740	52,452	21,366	75,558	2,549	13,003	5,784	749	5,468	27,553	103,111	
1936	14,261	113,897	59,270	187,428	5,023	14,471	4,821	1,532	8,959	34,806	222,284	
1937	31,791	90,798	20,037	142,626	10,274	16,143	2,636	1,367	9,924	40,395	183,021	
1938	39,885	137,133	79,247	256,265	10,897	15,183	6,601	2,403	14,046	49,130	305,395	
1939	70,822	201,599	117,295	389,713	11,177	21,720	11,633	4,199	16,265	64,994	454,712	
1940	87,103	212,317	107,468	406,884	17,612	29,828	16,432	7,442	20,924	92,238	499,128	
1941	75,634	215,967	140,147	431,748	24,737	41,594	20,816	10,558	26,412	124,109	555,857	
1942	133,346	335,555	129,580	598,481	31,510	25,307	8,115	6,133	41,540	112,604	711,058	
1943	198,020	568,406	205,263	971,688	15,428	20,462	18,512	14,884	92,999	162,285	1,133,973	
1944	211,106	620,257	274,855	1,106,218	3,258	19,106	17,543	14,295	69,184	123,385	1,229,603	
1945	206,642	683,011	242,769	1,132,422	4,219	25,624	20,183	16,443	66,322	132,741	1,265,163	
1946	200,681	743,527	292,744	1,236,952	3,545	30,435	36,490	24,443	77,440	172,353	1,409,306	
1947	227,595	705,280	248,047	1,180,922	3,575	89,491	69,316	36,737	69,184	270,103	1,451,024	
1948	255,213	707,530	239,211	1,201,954	2,794	100,195	61,728	32,308	73,046	270,071	1,472,025	
1949	257,287	712,154	235,933	1,205,374	1,991	109,893	90,415	45,556	79,667	327,522	1,532,896	
1950	305,887	839,641	307,901	1,453,429	1,448	102,267	81,986	47,853	82,402	315,956	1,769,385	
1951§ Jan.-Sept.	350,939	547,129	270,119	1,168,187	1,207	54,736	57,285	45,722	63,242	222,192	1,390,379	

Percentage of Total Domestic Disappearance

Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1931	1.8	30.9	20.7	53.4	10.9	17.8	10.7	2.6	4.6	46.6	100.0
1932	1	12.4	36.1	48.5	14.2	19.1	13.1	2.2	2.9	51.5	100.0
1933	1	1.6	28.9	30.5	13.4	27.1	22.6	3.7	2.7	69.5	100.0
1934	.1	8.9	33.5	42.5	4.4	34.1	13.2	3.1	2.7	57.5	100.0
1935	1.7	50.9	20.7	73.8	2.5	12.6	5.6	.7	5.3	26.7	100.0
1936	6.4	51.2	26.7	84.3	2.3	6.5	2.2	.7	4.0	15.7	100.0
1937	17.3	49.6	11.0	77.9	5.6	8.8	1.5	.8	5.4	22.1	100.0
1938	13.1	44.9	25.9	83.9	3.6	5.0	2.1	.8	4.6	16.1	100.0
1939	15.6	44.3	25.8	85.7	2.4	4.8	2.6	.9	3.6	14.3	100.0
1940	17.5	42.5	21.5	81.5	3.5	6.0	3.3	1.5	4.2	18.5	100.0
1941	13.6	38.9	25.2	77.7	4.5	7.4	3.7	1.9	4.8	22.3	100.0
1942	18.8	47.2	18.2	84.2	4.4	3.6	1.1	.9	5.8	15.8	100.0
1943	17.5	50.1	18.1	85.7	1.4	1.8	1.6	1.3	8.2	14.3	100.0
1944	17.2	50.4	22.4	90.0	.3	1.5	1.4	1.2	5.6	10.0	100.0
1945	16.3	54.0	19.2	89.5	.3	2.0	1.6	1.3	5.3	10.5	100.0
1946	14.2	52.8	20.8	87.8	.3	2.2	2.6	1.7	5.4	12.2	100.0
1947	15.7	48.6	17.1	81.4	.4	6.1	4.8	2.5	4.8	18.6	100.0
1948	17.3	48.1	16.3	81.7	.2	6.8	4.2	2.2	4.9	18.3	100.0
1949	16.8	46.4	15.4	78.6	.1	7.2	5.9	3.0	5.2	21.4	100.0
1950	17.3	47.4	17.4	82.1	.1	5.8	4.6	2.7	4.7	17.9	100.0
1951§ Jan.-Sept.	25.2	39.4	19.4	84.0	.1	3.9	4.1	3.3	4.6	16.0	100.0

Compiled as follows:

Utilization in margarine: 1931 through June 1950, from reports of the Commissioner of Internal Revenue; July 1950 and subsequently, from Bureau of the Census.

Utilization in other products, factory consumption, from Bureau of the Census, Animal and Vegetable Fats and Oils, except as noted.

* Mainly utilization in salad and cooking oils, mayonnaise, and salad dressings, and direct use in homes, bakeries, restaurants and institutions. Includes unreported disappearance of soybean oil; that is, the difference between total domestic disappearance and total factory consumption, including loss and oil in feet.

† Difference between total estimated use in drying-oil products and factory consumption in paint and varnish.

‡ Feet are used in nonfood products, largely in the manufacture of soap and fatty acids. Estimated since June 1942 as the difference between crude oil used in refining and production of refined oil.

§ Preliminary.

¶ Less than .05 percent.

Prepared by Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

SOYBEAN OIL UTILIZATION—(Continued)

**Soybean Oil, REFINED: Factory Consumption, by Uses, in the United States, 1949, 1950,
and the first three quarters of 1951**

			1951		
	1949	1950	First Quarter	Second Quarter	Third Quarter
Thousands of Pounds					
Total consumption	1,448,527	1,627,241	512,687	433,103	392,471
Processing:					
Fat splitting	1/	—	—	—	—
Hydrogenation	434,271	524,284	201,286	148,190	141,010
Sulphonation	550	655	242	167	145
Winterizing	78,697	1/	1/	1/	1/
Pressing					
Deodorizing (whole oil)	89,523	87,022	27,493	44,650	46,096
Other processing	1/	1/	1/	1,958	1/
Edible products:					
Shortening	550,646	649,328	173,719	118,936	99,860
Margarine	21,992	1/	18,577	15,547	17,495
Other edible	70,903	74,887	20,949	25,739	20,140
Inedible products:					
Soap	1/	1/	1/	71	1/
Chemicals	1/	1/	1/	1/	1/
Paint and varnish	87,136	82,848	16,142	15,467	12,650
Lubricants and greases	1/	188	87	72	1/
Linoleum and oilcloth	32,401	1/	1/	1/	1/
Other inedible products	59,227	63,659	22,171	23,810	18,997

1/ Not separately reported for part or all of period.

Table prepared in the Bureau of Agricultural Economics, U.S.D.A., from data reported by the Bureau of the Census.

**Soybean Oil, CRUDE: Factory Consumption, By Uses, in the United States, 1949, 1950,
and the first three quarters of 1951**

			1951		
	1949	1950	First Quarter	Second Quarter	Third Quarter
Thousands of Pounds					
Total consumption	1,638,284	1,834,810	613,304	517,607	484,476
Used in refining	1,588,201	1,781,784	600,362	501,264	423,798
Total use other than in refining	50,082	53,026	12,942	16,343	10,683
Processing:					
Fat splitting	1/	1/	1/	1/	1/
Hydrogenation	1/	1/	1/	1/	1/
Sulphonation	491	1/	1/	1/	1/
Other processing	24,788	23,823	5,066	5,793	5,981
Edible products:					
Shortening	1/	1/	1/	—	—
Inedible products:					
Soap	1,137	1,324	418	315	287
Chemicals	1/	1/	1/	1/	1/
Paint and varnish	3,057	4,188	873	706	746
Lubricants and greases	436	380	1/	1/	91
Linoleum and oilcloth	1/	1/	1/	1/	—
Other inedible products	16,711	18,364	3,981	4,223	3,100

1/ Not separately reported for part or all of period.

Table prepared in the Bureau of Agricultural Economics, U.S.D.A., from data reported by the Bureau of the Census.

PRICES OF U. S. SOYBEANS

SOYBEANS: Average Price Received by Farmers, Monthly and Season Average, United States, 1923-51

Crop Year	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Season Average
DOLLARS PER BUSHEL													
1923-24	2.09	2.10	2.11	2.23	2.26	2.41	2.40	2.44	2.49	2.60	2.51	2.33	2.28
24-25	2.23	2.16	2.36	2.59	2.64	2.76	2.77	2.81	2.70	2.71	2.40	2.38	2.46
25-26	2.27	2.18	2.17	2.05	2.33	2.39	2.27	2.37	2.67	2.71	2.31	2.27	2.34
26-27	1.97	1.85	1.83	1.90	2.03	1.98	2.07	2.15	2.20	2.14	2.06	1.91	2.01
27-28	1.86	1.69	1.61	1.70	1.69	1.85	1.93	2.06	2.13	2.12	2.01	1.89	1.81
28-29	1.72	1.69	1.70	1.82	1.93	2.13	2.19	2.30	2.41	2.46	2.15	1.87	1.88
29-30	1.79	1.70	1.72	1.85	1.91	2.00	2.07	2.11	2.16	1.96	1.90	1.80	1.88
1930-31	1.64	1.48	1.44	1.46	1.40	1.42	1.38	1.39	1.29	1.12	.94	.82	1.37
31-32	.52	.47	.47	.47	.48	.51	.51	.52	.51	.47	.47	.47	.50
32-33	.46	.45	.44	.45	.45	.48	.58	.86	.98	1.04	.94	.85	.54
33-34	.68	.69	.73	.81	1.01	1.16	1.26	1.25	1.45	1.64	1.25	1.05	.94
34-35	.95	.89	1.11	1.19	1.27	1.20	1.18	1.21	1.19	.98	.73	.69	.99
35-36	.68	.69	.72	.76	.77	.78	.78	.83	.85	1.05	1.19	1.10	.78
36-37	1.07	1.12	1.30	1.43	1.50	1.52	1.66	1.74	1.50	1.32	1.02	.90	1.27
37-38	.86	.83	.83	.88	.93	.89	.85	.87	.86	.85	.75	.71	.85
38-39	.64	.63	.67	.72	.69	.73	.78	.87	.83	.75	.64	.73	.67
39-40	.73	.82	.97	1.03	.96	1.01	1.00	.96	.79	.73	.67	.69	.81
1940-41	.67	.84	.81	.89	.84	.89	1.07	1.19	1.23	1.30	1.29	1.61	.90
41-42	1.42	1.43	1.47	1.65	1.78	1.79	1.76	1.73	1.63	1.62	1.58	1.57	1.55
42-43	1.58	1.58	1.59	1.59	1.60	1.65	1.67	1.72	1.73	1.70	1.68	1.69	1.61
43-44	1.80	1.80	1.81	1.82	1.85	1.89	1.91	1.93	1.93	1.91	1.90	1.93	1.81
44-45	2.04	2.05	2.05	2.06	2.10	2.18	2.13	2.15	2.17	2.16	2.12	2.07	2.06
45-46	2.06	2.09	2.09	2.09	2.11	2.12	2.14	2.16	2.17	2.31	2.35	2.13	2.08
46-47	2.28	3.09	2.75	2.98	3.00	3.67	3.62	3.01	3.07	3.09	3.07	3.05	2.57
47-48	3.11	3.43	3.69	4.11	2.97	3.23	3.64	3.74	3.90	3.66	2.91	2.45	3.34
48-49	2.27	2.36	2.36	2.27	2.05	2.12	2.08	2.18	2.10	2.27	2.60	2.14	2.27
49-50	2.09	1.95	2.09	2.11	2.12	2.25	2.48	2.71	2.80	2.93	2.42	2.26	2.16
1950-51	2.03	2.54	2.70	2.90	3.08	3.10	3.12	3.13	2.98	2.86	2.71	2.59	2.47
51-52	2.62	2.77	2.83										

Source: Bureau of Agricultural Economics, U. S. Department of Agriculture. Monthly figures are average prices received by farmers on the 15th of the month. Season averages are crop-year average prices, by states, weighted by production to obtain U. S. average.

SOYBEANS FOR CRUSHING:

Average Prices of No. 2 Yellow Soybeans, Bulk, in Carlots at Chicago, by Months, Oct. 1933-Dec. 1951*

Crop Year	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Season Average**
DOLLARS PER BUSHEL													
1933-34	.72	.73	.76	.79	.82	.88	.90	.93	.94	.94	—	—	.84
1934-35	.86	.96	1.24	1.27	1.29	1.13	1.10	1.07	.95	—	.72	—	1.06
1935-36	.79	.81	.87	.88	.85	.82	.83	.85	.91	1.22	1.42	1.27	.96
1936-37	1.23	1.29	1.46	1.61	1.59	1.59	1.74	1.75	1.40	1.39	1.12	.98	1.43
1937-38	.98	.93	.95	1.00	1.04	.98	.92	.91	.88	.92	.86	.84	.93
1938-39	.74	.74	.81	.84	.82	.88	.89	.96	.93	.90	.87	.87	.85
1939-40	.87	.98	1.15	1.16	1.06	1.14	1.09	1.00	.81	.82	.81	.81	.96
1940-41	.83	.95	.96	1.02	.95	1.04	1.20	1.32	1.39	1.50	1.57	1.88	1.06
1941-42	1.58	1.60	1.67	1.83	1.95	1.92	1.83	1.80	1.72	1.74	1.71	1.71	1.68
1942-43	—	—	—	—	—	1.79	1.71	1.71	1.71	1.71	1.71	1.71	1.72
1943-44	1.88	—	1.86	1.87	—	1.94	—	—	1.92	1.95	1.94	2.04	1.90
1944-45	—	—	—	—	—	2.19	2.21	2.20	2.22	—	2.18	2.17	2.20
1945-46	2.11	2.18	2.18	—	—	—	—	—	—	—	—	—	2.13
1946-47	2.87	3.29	3.12	3.21	—	—	—	—	—	3.34	3.11	2.92	3.04
1947-48	3.39	3.66	3.93	4.21	—	3.59	3.86	4.02	—	3.78	3.22	—	3.80
1948-49	2.44	2.58	2.62	2.47	2.26	2.28	2.26	2.32	2.33	2.64	3.20	2.21	2.45
1949-50	2.23	2.19	2.31	2.31	2.36	2.48	2.69	3.11	3.00	3.12	2.92	—	2.29
1950-51	2.37	2.75	3.02	3.22	3.30	—	3.25	—	3.17	3.02	—	2.66	2.61
1951-52	2.91	2.93	2.99										

*Source: Bureau of Agricultural Economics, U. S. Dept. of Agriculture. Compiled as follows: Oct. 1933-May 1942 from Chicago Daily Trade Bulletin, June 1942 and subsequently from Chicago Journal of Commerce. Monthly prices, Oct. 1933-Sept. 1939, are simple averages of daily quotations, net track price; monthly prices, Oct. 1939 and subsequently, are weighted averages of reported cash sales—computed by weighting daily selling price by number of carlots sold. **Season average prices 1933-34 through 1938-39, are simple averages of monthly prices; beginning with 1939-40 the season averages are weighted by the monthly volume of cash sales.

PRICES OF U. S. SOYBEAN OIL MEAL AND OIL

SOYBEAN OIL MEAL:

**Average Price Per Ton, Bagged, in Carlots, 41 Percent Protein, at Chicago by Months,
Oct. 1929—Dec. 1951***

Crop Year	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Season
													Average**
1929-30	58.30	54.20	53.05	51.80	48.25	48.20	50.15	50.70	48.75	46.00	47.80	47.50	50.40
1930-31	44.00	41.20	40.00	39.30	36.60	33.15	31.90	28.60	25.80	24.90	23.35	21.40	32.50
1931-32	18.60	23.85	23.00	20.45	18.75	18.90	19.90	19.95	20.20	20.05	22.60	23.70	20.85
1932-33	22.75	21.70	21.70	21.70	21.70	22.60	23.70	25.30	28.85	39.20	39.00	34.85	27.15
1933-34	31.70	30.15	30.50	30.60	31.50	32.50	33.25	33.60	34.50	34.50	37.75	39.50	33.35
1934-35	38.50	38.85	41.20	40.70	38.45	37.10	33.80	33.20	31.70	29.05	24.00	22.85	34.10
1935-36	25.60	24.40	25.50	25.15	23.90	22.30	23.30	24.30	26.10	38.90	44.30	39.70	28.65
1936-37	36.90	39.15	43.00	44.10	41.50	41.10	47.60	48.35	39.20	37.30	34.90	34.20	40.60
1937-38	28.80	29.50	28.80	30.00	29.60	28.10	26.00	26.30	25.30	26.95	26.15	27.00	27.70
1938-39	24.60	24.40	26.20	26.30	24.70	24.45	24.70	26.30	25.95	24.70	25.70	33.70	26.00
1939-40	28.30	32.70	34.95	33.90	29.95	30.45	29.65	28.65	24.40	22.25	24.60	27.00	28.90
1940-41	25.90	30.50	29.60	29.75	26.60	26.85	27.50	28.10	29.70	33.80	36.20	41.40	30.50
1941-42	37.95	39.10	42.50	46.45	46.45	44.85	41.00	38.30	37.90	41.80	42.60	43.50	41.85
1942-43	42.70	46.60	39.00	39.35	39.60	40.60	40.60	40.55	40.40	40.40	51.90	51.90	42.80
1943-44	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	52.00	51.90
1944-45	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
1945-46	52.00	52.00	52.00	52.00	52.00	52.00	62.50	66.00	97.00	93.15	66.00	62.40	
1946-47	79.50	93.35	80.70	71.90	65.40	81.05	72.15	68.55	76.30	89.75	91.90	102.70	81.10
1947-48	91.05	92.90	101.50	110.25	89.00	84.75	86.20	86.60	94.25	96.90	84.40	81.50	91.60
1948-49	66.80	79.25	78.00	73.45	65.80	67.40	70.55	71.00	75.40	85.55	100.30	88.15	76.40
1949-50	74.80	69.40	68.80	66.00	65.05	69.65	73.30	82.60	85.15	96.40	78.20	65.85	74.60
1950-51	64.90	73.35	76.40	77.20	82.55	79.65	75.45	76.55	76.30	80.50	77.40	82.80	76.90
1951-52	86.25	86.65	86.65										

*Source: Bureau of Agricultural Economics, U. S. Dept. of Agriculture. Beginning June 1950, prices are on basis of 44 percent protein.

** Simple average for months shown, rounded to nearest five cents.

SOYBEAN OIL, DOMESTIC CRUDE:

Average Price Per Pound in Tank Cars at Midwestern Mills, by Months, Oct. 1929-Dec. 1951*

Crop Year	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Season
													Average**
1929-30	10.7	9.7	8.8	8.4	8.4	8.4	9.0	8.9	8.9	9.3	9.3	9.3	9.1
1930-31	8.8	7.4	6.7	6.4	6.0	5.7	5.8	6.2	5.7	6.1	6.0	5.3	6.3
1931-32	5.1	4.4	3.8	3.3	3.2	3.1	3.0	3.0	3.0	3.1	3.1	3.2	3.4
1932-33	3.4	2.9	3.0	3.0	3.2	3.5	3.4	4.5	6.1	7.4	8.0	6.8	4.6
1933-34	6.0	6.2	6.2	5.6	5.6	5.9	6.0	6.0	5.5	5.8	5.7	5.8	5.9
1934-35	6.1	6.3	7.3	7.8	8.1	9.1	8.4	8.8	8.6	7.8	7.1	7.7	7.8
1935-36	8.1	8.1	8.1	7.6	7.2	6.8	6.8	6.3	6.0	7.9	8.0	8.2	7.4
1936-37	8.0	8.0	9.1	9.8	9.9	9.8	9.8	9.0	8.2	—	—	—	9.1
1937-38	5.8	5.6	5.2	5.8	6.1	6.4	5.9	5.7	5.2	5.9	5.7	5.2	5.7
1938-39	5.0	5.1	5.1	4.9	4.8	4.9	4.7	4.9	4.8	4.2	4.0	5.6	4.8
1939-40	5.0	4.7	5.3	5.2	5.4	5.6	5.5	5.0	4.7	4.6	4.2	3.9	4.9
1940-41	3.9	4.2	4.5	5.1	5.1	6.1	7.6	8.7	9.6	9.8	9.5	10.5	7.0
1941-42	10.4	9.8	10.1	11.4	11.7	11.8	11.8	11.8	11.6	11.2	11.4	11.7	11.2
1942-43	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
1943-44	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
1944-45	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
1945-46	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.9
1946-47	18.8	24.2	24.6	26.0	28.4	33.6	27.4	21.4	18.2	17.2	15.9	18.8	22.9
1947-48	20.7	25.6	26.2	26.6	21.4	24.5	26.3	27.3	22.1	22.1	22.8	23.8	
1948-49	18.6	19.1	17.3	14.3	12.3	10.8	10.5	10.8	9.4	9.7	12.9	11.4	13.1
1949-50	10.1	9.6	10.2	10.8	11.4	12.8	13.1	13.8	13.2	12.9	14.5	15.0	12.3
1950-51	14.6	17.1	19.6	20.6	21.1	20.5	20.5	19.5	16.4	14.5	15.4	14.0	17.8
1951-52	13.8	13.2	12.6										

* Source: Bureau of Agricultural Economics, U. S. Dept. of Agriculture. Monthly prices, Oct. 1929 through Sept. 1938, compiled from Oil Paint and Drug Reporter; Oct. 1938 through Dec. 1950 compiled from The National Provisioner.

** Simple average for months shown.

IMPORTS, EXPORTS CAKE AND MEAL

OILSEED CAKE AND MEAL: Imports and Exports, United States, year beginning October 1929-50

Year beginning October	Imports						Exports					
	Cotton- seed cake and meal	Soybean cake and meal	Linseed cake and meal	Peanut cake and meal	Copra cake and meal	Total	Cotton- seed cake and meal	Soybean cake and meal	Linseed cake and meal	Peanut cake and meal	Copra cake and meal	Total
	1,000 tons	1,000 tons	1,000 tons	1,000 tons	1,000 tons	1,000	1,000 tons	1,000 tons	1,000 tons	1,000 tons	1,000 tons	1,000
1929	18.5	73.5	31.5	78.3	16.3	148.1	126.2	*	232.2	*	*	358.4
1930	3	24.0	10.1	72.2	10.9	47.5	55.1	*	204.9	*	*	260.0
1931	1.1	18.6	12.8	72.3	4.6	38.9	218.9	*	169.2	*	*	388.1
1932	3.0	28.3	11.2	72.3	7.1	51.9	145.8	*	168.0	*	*	313.8
1933	5.0	25.0	5.7	1.2	27.9	67.8	63.1	*	241.7	*	*	304.8
1934	47.4	64.2	10.2	3.5	51.5	176.8	2.9	*	205.5	*	*	208.4
1935	6.7	20.0	17.2	1.9	49.3	94.1	10.6	*	210.6	*	*	221.2
1936	26.8	55.7	15.9	9.6	73.0	181.0	12.6	*	328.8	*	*	341.4
1937	4.6	15.5	5.3	2.2	39.8	67.4	88.5	*	240.3	*	*	328.8
1938	4.4	12.3	7.8	10.5	53.9	88.9	11.6	35.0	286.6	*	*	333.2
1939	33.0	12.1	1.3	9.8	88.4	144.6	4.9	62.3	146.7	*	*	218.9
1940	52.2	8.1	.6	7.5	84.0	152.4	.9	25.4	4.8	*	*	31.1
1941	37.3	0	.2	7.1	22.6	67.2	1.1	19.7	11.1	*	*	31.9
1942	46.8	0	1.0	4.6	0	52.4	1.7	20.9	4.2	.1	*	27.0
1943	96.3	0	2.5	3.6	0	102.4	.6	16.1	1.5	.1	.1	18.4
1944	87.4	0	10.0	2.5	.1	100.0	†	10.0	.7	.4	.1	11.2
1945	47.6	†	1.2	3.1	1.5	53.4	†	.9	.3	.1	.1	1.4
1946	15.6	0	†	1.1	.5	17.2	5.3	141.7	4.6	26.2	5.1	182.9
1947	13.8	0	8.8	3.1	7.0	32.7	9.6	95.7	28.5	3.7	0	137.5
1948	39.4	3.2	8.1	.9	44.3	95.9	121.7	150.1	54.0	21.1	0	346.9
1949	104.8	26.1	4.8	6.2	56.4	198.3	123.6	47.4	6.5	48.9	0	226.4
1950	90.7	32.8	1.0	1.1	65.8	191.4	13.2	181.1	29.2	24.0	.3	247.8

†Calendar year following. *Not separately reported. †Less than 50 tons. Compiled from data of the Bureau of Foreign and Domestic Commerce, and Bureau of the Census. Table prepared by the Bureau of Agricultural Economics, U. S. Dept. of Agriculture.

PRODUCTION, EXPORTS SOY FLOUR AND GRITS

SOY FLOUR AND GRITS: UNITED STATES PRODUCTION AND EXPORTS: 1935-51

Year beginning October 1	Production*			Exports		
	Full fat Products	Low fat and defatted products	Total	Commercial †	Military ‡	Total
	1,000 lbs.	1,000 lbs.	1,000 lbs.	1,000 lbs.	1,000 lbs.	1,000 lbs.
1935-36			22,000			
1936-37			24,000			
1937-38			26,000			
1938-39			28,000			
1939-40			30,000			
1940-41			50,000			
1941-42	28,000	56,125	84,125			
1942-43	90,600	181,000	271,600	22,971		22,971
1943-44	77,185	174,280	251,465	100,540		100,540
1944-45	43,925	72,715	116,640	58,460	14,374	72,834
1945-46	50,914	322,761	373,675	183,642	3,604	187,246
1946-47	21,263	358,537	379,800	105,814	135,223	241,037
1947-48	7,746	667,633	675,379	479,674	74,879	554,553
1948-49	9,492	134,356	143,848	56,186	—	56,186
1949-50	10,742	144,874	155,616	13,873	—	13,873
1950-51	11,128	113,680	124,808	7,435	—	7,435

*Based on reports of the Soy Flour Association supplemented by information furnished the War Food Administration by the industry for 1942-48 and the Bureau of the Census for 1949 to date. Data for 1935-41 are rough approximations used during the war years since no exact data were available.

†Reported by the Bureau of the Census—not available prior to 1943. Thus the first figure is for January-September 1943 only. Includes exports under the Lend Lease program.

‡Shipments for military relief feeding furnished by the National Military Establishments for 1944-46 and by the Bureau of the Census for 1947. Beginning with January 1948 included with commercial exports. The export figures do not include purchases by the Military for its own use.

Compiled by Grain Branch, P.M.A., U. S. Department of Agriculture.

Additional copies of the Soybean Blue Book may be purchased from the American Soybean Association, Hudson, Iowa, for \$1.

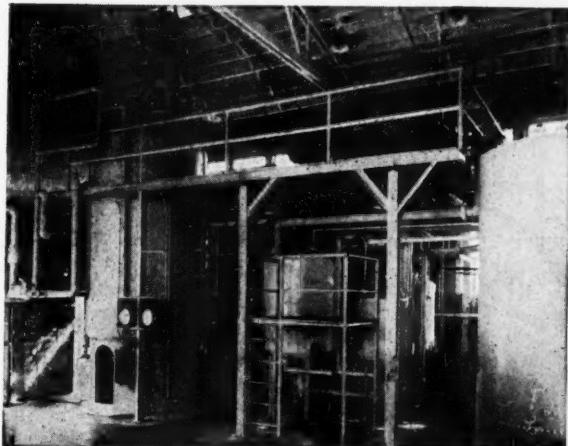
IMPORTS, EXPORTS FATS AND OILS

United States: Trade in soybeans and oil and total trade in fats and oils. Average 1935-39, annual
1940-50, and January-October 1951
(Oil equivalent)

Calendar year	Exports			Imports	
	Total fats and oils 1,000 pounds	Soybeans and oil 1,000 pounds	Percentage Soybean Percent	Total fats and oils 1,000 pounds	Soybeans and oil 1,000 pounds
Average 1935-39	285,870	49,604	17.4	2,244,764	11,986
Annual					
1940	350,129	37,924	10.8	1,640,044	4,859
1941	560,611	16,194	2.9	1,903,143	767
1942	854,366	21,643	2.5	842,054	1
1943	1,385,095	67,141	4.8	999,064	3
1944	1,422,139	80,046	5.6	962,100	3
1945	851,678	100,431	11.8	881,048	40
1946	728,051	111,969	15.4	935,425	0
1947	839,753	130,125	15.5	1,403,713	71
1948	888,717	145,380	16.4	1,253,957	381
1949	2,236,930	592,448	26.5	1,088,494	300
1950	1,991,625	486,686	24.4	1,314,285	30
1951 1/					
Jan.-Oct.	1,908,098	614,434	32.2	986,441	13

1/ Preliminary.
Compiled by Fats and Oils Division, Office of Foreign Agricultural Relations, U. S. Department of Agriculture.

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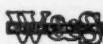
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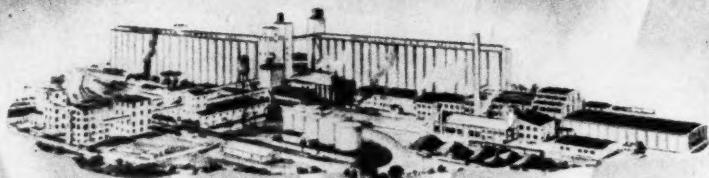


WURSTER & SANGER, INC.

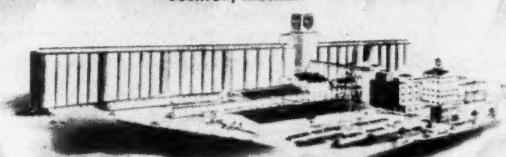
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FOR QUALITY

THE CENTRAL SOYA CO., INC.

McMillen Feed Mills, Wholly Owned Subsidiary • Executive Offices, Fort Wayne, Indiana

PROCESSORS OF SOYBEANS

Officers of firms are listed as follows: (1) president; (2) vice president; (3) secretary; (4) treasurer; (5) head soybean buyer; (6) oil sales manager; (7) plant superintendent; (8) meal sales manager; (9) plant manager. Brand names are in quotation marks. Type of processing equipment, tons per day, processing capacity, total storage capacity and railroads serving the individual plant are listed. Information was obtained through questionnaires sent directly to processing companies. Established policy of some firms makes unavailable more complete information than is carried in this directory.

ALABAMA

Birmingham—FARMERS & GINNERS COTTON OIL CO., Box 1408, Ave. F and 8th St. (1, 5, 8) J. V. Kidd; (2) E. P. Kidd; (2, 8) J. W. Kidd; (3, 4) C. L. Alsbrooks; (7) S. A. Watkins. Storage cap. 400,000 bu. 41% soybean oil meal. Served by BB, L&N RR.

Birmingham—SOUTHERN COTTON OIL CO. (Dist. office Cullman, Ala. Main office 210 Baronne St., New Orleans 12, La.) (7) W. C. Hendrix; (9) S. F. Hosey.

Cullman—SOUTHERN COTTON OIL CO. Dist. office. (Main office 210 Baronne St., New Orleans 12, La.) F. W. Hurston, dist. mgr.

Dothan—DOTHON OIL MILL, P. O. Box 458. (1) J. H. Bryson; (2) J. H. Bryson, Jr.; (3, 4) W. D. Malone; (5, 6, 8) J. B. Roberts; (7) E. L. Dillard; (9) No. 1 Mill, J. B. Roberts; No. 2 Mill, J. H. Bryson, Jr. Screw pr., solv. ex.; Anderson Exsolex process. Served by ACL, COGA, BL RR.

Foley—BALDWIN OIL MILLS, INC. (Affiliate of Sessions Co., Inc. Enterprise, Ala.) (1, 6) M. H. Sessions; (2) W. H. Reimer; (2) Mike Giuliani; (3, 5, 9) E. E. Purvis, Jr.; (4) Paul Kaiser, Jr.; (7) Harold Adcock; (8) Oscar Bird, Jr. Hexane solv., cap. 50 t. Storage cap. 198,000 bu. Soybean oil meal. Served by L&N RR.

Headland—HOME FERTILIZER & COTTON OIL CO.

Montgomery 1—BUCKEYE COTTON OIL CO. Dist. mgr., J. M. Sewell; (7) P. W. Anderson.

Selma—BUCKEYE COTTON OIL CO. Dist. mgr., J. A. Bates; (7) G. W. French.

Untontown—BUCKEYE COTTON OIL CO. Dist. mgr., T. E. Goodale; (7) R. J. Patterson.

ARKANSAS

Blytheville—SWIFT & CO. (Home office Chicago, Ill.) (5) J. B. Crosslin; (7) L. S. Janet; (8) J. C. Walsh; (9) L. Gunn. "Swift's" soybean oil meal.

Fort Smith—FORT SMITH COTTON OIL CO., INC., S. 6th and I St. (1) and gen. mgr., R. E. Lillard; (2) and asst. gen. mgr., W. H. Lillard; (8) M. E. Vaughan. 5 exp., 16 hydraulic presses. Served by MP, Frisco RR.

Helena—HELENA COTTON OIL CO. (1) O. W. Howe; (2) E. T. Horner; (3) T. R. Kelly; (5, 8) Joe C. Brady; (7) Joe C. Carden. 3 exp., cap. 50 t. Hexane solv., cap. 100 t. Storage cap. 1,122,000 bu. "Helco" soybean oil meal and pellets. Operation 25% soybeans. Served by MP, IC RR.

Little Rock—BUCKEYE COTTON OIL CO. Dist. mgr., F. H. Jarrell; (7) E. F. Kelley.

Little Rock—ROSE CITY COTTON OIL MILL, Box 950. (1) A. G. Kahn; (2) Mark Valentine; (3) W. M. Bruce, Jr.; (4, 9) W.

F. Bates; (7) Floyd Fowler. 10 hydraulic pr., cap. 65 t. Storage cap. 150,000 bu. "Sure Shot" soybean oil meal. Served by MP, CRI&P, STLSW RR.

Little Rock—SOUTHERN COTTON OIL CO. (Main office 210 Baronne St., New Orleans 12, La.) (7) R. R. Castillor; (9) C. M. Smith.

Newport—SOUTHERN COTTON OIL CO. (Main office 210 Baronne St., New Orleans 12, La.) (7) N. L. Pugh, Jr.; (9) J. E. Dohertry.

Osceola—OSCEOLA PRODUCTS CO. (1) D. S. Laney; (2) C. F. Tompkins; (3, 4, 5, 6, 8, 9) Ralph Woodruff; (7) T. W. Perkins; (7) solvent) O. M. Beckham. "Osceola" meal. "Osceola" pellets. Hexane solv. plant, Allis-Chalmers, cap. 125 t. Storage cap. 800,000 bu. Served by FR RR.

Pine Bluff—PLANTERS FERTILIZER & SOYBEAN CO., Dunklin Bros., owners. Geo. H. Dunklin, mgr. 3 French screw pr., cap. 75 t. "Razorback" soybean oil meal. Operation 66% soybeans. Served by MP, CB RR.

Prescott—NEVADA COUNTY OIL MILL. (Subsidiary of W. E. Cox & Sons) (1, 5) Ernest H. Cox; (3) Mrs. E. H. Cox; (7) R. Thompson. 2 exp., cap. 45 t. Storage cap. 3,000 tons. "Nevco" soybean meal.

Wilson—BUCKEYE COTTON OIL CO. Dist. mgr., C. H. Buchanan; (7) H. W. Gilbert.

Wilson—WILSON SOYA CORP. (1) R. E. L. Wilson 3rd.; (2) R. E. L. Wilson, Jr.; (3, 4) F. O. Wilson; (5, 6, 8, 9) R. A. Pratt; (7) Russie Perry. Solv. cap. 100 t. Naptha solvent. Storage cap. 1,000,000 bu. 44% soybean oil meal. Served by StL, SF RR.

CALIFORNIA

Buena Park—GLIDDEN CO. (1) Dwight P. Joyce; (2) Newell Beatty; (3) R. D. Horner; (4) J. A. Peters; (5, 6, 8) W. W. Stephens; (7) A. R. Horne. Storage cap. 500,000 bu. Screw press and extraction. "Torch" meal.

Long Beach—SPENCER KELLOGG & SONS, INC. (See Buffalo, N. Y.)

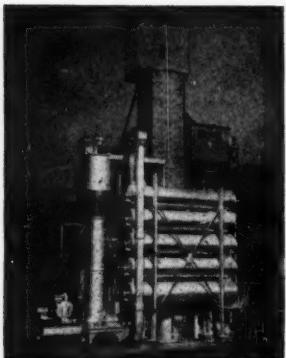
Los Angeles 58—CALIFORNIA COTTON OIL CORP., 2301 E. 52nd St. (1) R. F. Ingold; exec. vice-pres. and gen. mgr., W. B. Coberly, Jr.; (2) Robert Ingold; (5, 6, 8) Wiley Blair, 3rd; (7) H. F. Crossno. 12 screw pr., cap. 240 t. Storage cap. 500,000 bu. "Calico" soybean oil meal and pellets. Served by SF, UP RR.

Los Angeles 58—PACIFIC NUT OIL CO., 2301 E. 52nd St. Plant at 4615 Bandini Blvd., Los Angeles 22. (1) W. B. Coberly, Jr.; (2, 3) D. L. Allison; (4) C. W. Allison; (5, 6, 8) Wiley Blair, 3rd; (7) Wm. D. Horne. 23 exp., cap. 280 t. Storage cap. 650,000 bu. Served by SF, UP RR.

Norwalk—LIBERTY VEGETABLE OIL CO., Box 125. (Subsidiary of Iowa Milling Co.) (1, 5, 9) I. D. Sinaiko; (2) Joe Sinaiko; (3) Sam Maslon; (4, 6, 8) Wm. Sinaiko; (7) Gordon Lamberton. 3 pr., cap. 75 t. Storage cap. 200,000 bu. "Liberty" soybean oil meal. Operation 50% soybeans. Served by SP RR.

Oakland—ALBERS MILLING CO., 2700 7th St. (Main office Carnation Bldg., 5045 Wilshire Blvd., Los Angeles 36). Subsidiary of Carnation Co. (1) A. P. Herold; (2) E. W. Kelner; (3) S. A. Halgren; (4) H. E. Olson; (2, 5) W. P. Kyle; (6) E. L. Dial; (2, 8) T. V. Cox; (9) F. H. Albers, Jr. 6 exp., cap. 110 t. Storage cap. 200,000 bu. "Albers Oil Meal." "Albers Quality Controlled" feeds and pellets. Served by SF, SP, WP RR.

PROCESSORS—(Continued)



Processors of “PORT CITY” SOYBEAN OIL MEAL MUSCATINE PROCESSING CORP.

S. G. Stein, President
G. A. Kent, Vice President
MUSCATINE, IOWA

DANNEN MILLS, Inc.

**Send us
your
Soybeans**

2,500,000 bushel
Processing Capacity

ST. JOSEPH, MO.



San Francisco—PACIFIC VEGETABLE OIL CORP., 62 Townsend St. Branch plant, 1145 So. 10th St., Richmond, Calif. (1) B. T. Rocca, Sr.; (2, 5) B. T. Rocca, Jr.; (3) D. Miller; (4) Ford M. Tussing; (6) R. Hammond; (7) M. G. Langford; (8) Jim Taylor; (9) E. A. Hill; engineer, J. Helm; chief chemist, J. Kneeland. San Francisco, 5 pr.; cap. 80 t. Tank storage cap. 368,000 bu. Richmond, 4 pr., cap. 60 t. Warehouse storage cap. 170,000 bu. “PVO” meal. Operations part-time soybeans. Served by SP, AT&SF, WP RR.

Wilmington—VEGETABLE OIL PRODUCTS CO., INC., 401 Canal Ave. (1) C. A. Roberts; (2 in charge of traffic) W. D. Wilke; (2, 7, 9) C. C. Hopper; (2, 8) S. T. Pattison; (3) R. E. Roesling; (4) W. L. Myers; (5, 6) W. L. Dickinson. 4 exp., cap. 50 t. Storage cap. 60,000 bu. “Sun Ripe” soybean oil meal. Soybean operation 3,000 t. annually. Served by SP, UP, AT&SF, HBL RR.

DELAWARE

Millsboro—TOWNSEENDS, INC. (1) Sen. J. G. Townsend; (2, 5, 6, 8) P. C. Townsend; (4) J. G. Townsend, 3rd.; (7, 9) John D. Phillips. Trichlorethylene solv., cap. 50 t. Storage cap. 250,000 bu. Soybean oil meal, feeds and pellets.

FLORIDA

Pensacola—SOUTHERN COTTON OIL CO. (Dist. office Culman, Ala. Main office, 210 Baronne St., New Orleans 12, La.) Dist. mgr., F. W. Hurston; (7), C. E. Dutton; (9) J. T. Murphy.

GEORGIA

Atlanta—BUCKEYE COTTON OIL CO. General and dist. offices. (2) J. O. Wilson; eastern div. mgr., S. P. Cottraux. Dist. mgr. for oil mill, W. P. Lanier; (7) W. H. Davis.

Atlanta—SOUTHERN COTTON OIL CO. Dist. office. (Main office 210 Baronne St., New Orleans 12, La.) H. G. Richey, dist. mgr.

Augusta—BUCKEYE COTTON OIL CO. Dist. mgr., H. M. Henry; (7) J. G. Henry.

Augusta—PLANTERS COTTON OIL CO., INC., 1855 Millerville Rd. (1, 4, 5, 6, 8) A. J. Maguire; (2) A. J. Maguire, Jr.; (3) A. W. Riddle; (7, 9) K. L. Steinek. 8 hydraulic pr., cap. 90 t. Storage cap. 100,000 bu. Soybean oil meal. Soybean operation, 100,000 bu.

Cordelle No. 2—SOUTHERN COTTON OIL CO. (Dist. office Atlanta, Ga. Main office 210 Baronne St., New Orleans 12, La.) (7) H. B. Wilson; (9) H. L. Richey.

Macon—BUCKEYE COTTON OIL CO. Dist. mgr., J. P. George; (7) T. J. Doughman.

Macon—SOUTHERN COTTON OIL CO. (Dist. office Atlanta, Ga. Main office 210 Baronne St., New Orleans 12, La.) (7) T. E. Summers; (9) A. A. Almand.

Moultrie—TAYLOR OIL & PEANUT MILLS, div. of Georgia Peanut Co., Moultrie. (1) Homer G. Ray, Jr.; (2) B. C. Ray; (2) Roy E. Parrish; (2, 6, 8, 9) W. H. Allen; (7) J. F. Jarrell. 12 hydraulic pr. and De Laval refinery. Served by GN, ACL RR.

Rome—SOUTHERN COTTON OIL CO. (Dist. office Atlanta, Ga. Main office 210 Baronne St., New Orleans 12, La.) (7) T. F. Ford; (9) C. H. Lumpkin.

SOYBEAN BLUE BOOK

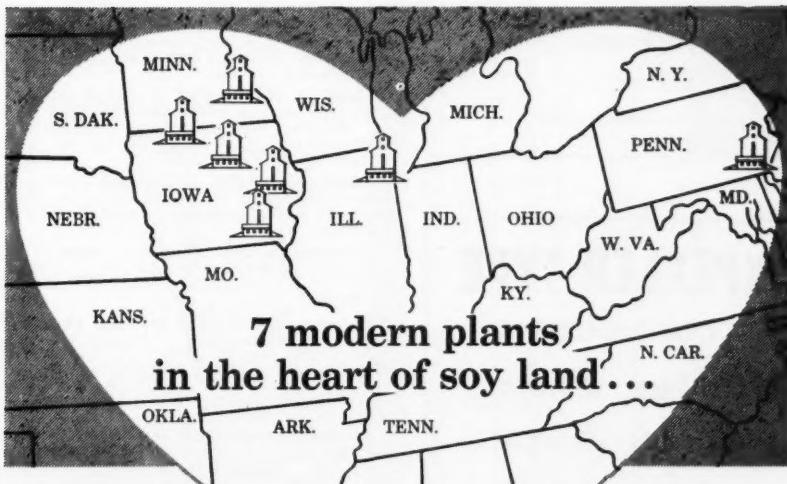
LOOK TO CARGILL

...specialists in serving agriculture

Specialists in soybeans: Seven modern plants located in heavy bean production areas to provide you with faster, easier, more convenient service. Each plant pledged to the highest standards of quality, dependability and service in keeping with the name Cargill. We invite you to inquire for our soybean bids and our soybean meal or oil quotations.

Solvent Extraction — Crude degummed Soy Oil
—Tested 44% Protein Meal.

Expeller Process — Crude Soy Oil—41% Protein
Expeller Meal.



Port Cargill, Minn.

Spencer, Iowa

Ft. Dodge, Iowa

Cedar Rapids, Iowa

Washington, Iowa

Chicago, Illinois

Philadelphia, Pa.

CARGILL

ROACH SOYBEAN MILLS

INCORPORATED

Plainfield, Iowa

Extraction Process

Roach 44% Soybean Meal

Roach Soybean Oil

Inquiries Invited

PROCESSORS—(Continued)

Savannah — SOUTHERN COTTON OIL CO. (Dist. office Atlanta, Ga. Main office 210 Baronne St., New Orleans 12, La.) (7) J. R. Woolsey; (9) U. F. Stewart.

Thomasville — FARMERS PRODUCTS CO., Box 108. (1) F. H. Searcy; (3) M. A. Froberg; (7) G. M. Smithson. 2 exp., cap. 50 t. Storage cap. 3,000 t. "Farm Pro" soybean oil meal. Soybean operation 500 t. Served by ACL RR.

ILLINOIS

Alhambra — ALHAMBRA GRAIN & FEED CO. (1) E. H. Isenberg; (2) Theo. Albrecht; (3) Clarence J. Ludwig; (4, 5) Elmer H. Ruehrup; (9) Paul Bauer. 2 exp., cap. 40 t. Storage cap., 210,000 bu. "AG&F" soybean oil meal. Served by IC RR.

Bloomington — FUNK BROS. SEED CO. 1300 W. Washington St. (1) Eugene D. Funk, Jr.; (2) Dr. James R. Holbert; (3) La Fayette Funk; (4) Theodore Funk; (5) A. M. Convis; (6, 8, 9) H. A. Abbott; (7) D. D. Walker. Hexane solv. ext., cap. 200 t. "Funk's" soybean oil meal and "Minrol Soy."

Bloomington — RALSTON PURINA CO. (Head office St. Louis Mo.) (5) R. G. Bromley; (7) Jay L. Clark; (9) Nat Morey. Solv., cap. 250 t. Storage cap. 2,000,000 bu. "Purina Chows" feeds.

Cairo — CAIRO MEAL & CAKE MILLING CO., 46th St. and Sycamore. (1) A. T. Madra. Storage cap. 100,000 bu. "Miss Cairo" soybean oil meal. Served by IC, NYC, GM&O, MP RR.

Cairo — SWIFT & CO. (Home office Chicago) (5, 9) W. B. Stone; (8) N. F. Kreuger; (7) E. H. Ebanks. "Swift's" soybean oil meal.

Champaign — SWIFT & CO. (Home office Chicago) (5, 9) N. P. Noble; (8) R. J. Hendrick; (7) C. H. Graham. "Swift's" soybean oil meal.

Chicago 4 — ALLIED MILLS, INC., 3400 Board of Trade Bldg. Plants at Portsmouth, Va.; Omaha, Nebr.; Peoria and Taylorville, Ill. (1) H. J. Buist; (2) L. T. Murphy; (3, 4) E. D. Griffin; (2, 5, 6, 8) J. J. Quinlan; (3, 4) E. W. Lenz. "Wayne" soybean oil meal, mixed feeds and pellets.

Chicago — ARCHER - DANIELS - MID-LAND CO. (See Minneapolis, Minn.)

Chicago — BORDEN'S SOY PROCESSING CO., 105 W. Adams St. (Division of the Borden Co. See under Waterloo, Iowa.) (5, 6, 8) J. R. Pentis.

Chicago — CARGILL, INC. Head office 200 Grain Exch., Minneapolis 15, Minn. (7) Milt Bondus.

Chicago — CENTRAL SOYA CO., INC., Offices 3718 Board of Trade Bldg., and 300 Fort Wayne Bank Bldg., Fort Wayne, Ind. "Central Star Brand" soybean oil meal, "Centrol" lecithin, "Centrol" soybean oil products, "Master Mix" concentrates and complete feeds.

Chicago 39 — GLIDDEN CO., soya products div., 1825 N. Laramie St. (1) Dwight P. Joyce; (2) R. G. Golseth; (3) R. D. Horner; (4) J. Peters; (5) Carl E. Benson; (6) Glenn M. Davidson; (7) Emil Buelens; (8) Ford M. Ferguson; (9) E. T. Wilhelm. Exp. and Hexane ext. units. Storage cap. 2,000,000 bu. "Diamond G" and "4-Hi" soybean oil meal. Full-fat screw press and extracted soy flour.

Chicago — SPENCER-KELLOGG & SONS, INC. (See Buffalo, N. Y.)

SOYBEAN BLUE BOOK

EXPELLER TYPE

OLD PROCESS

Hawkeye Brand

SOYBEAN OIL MEAL

Golden Brown

Palatable—Nutty Flavor

Meal or Pea Size

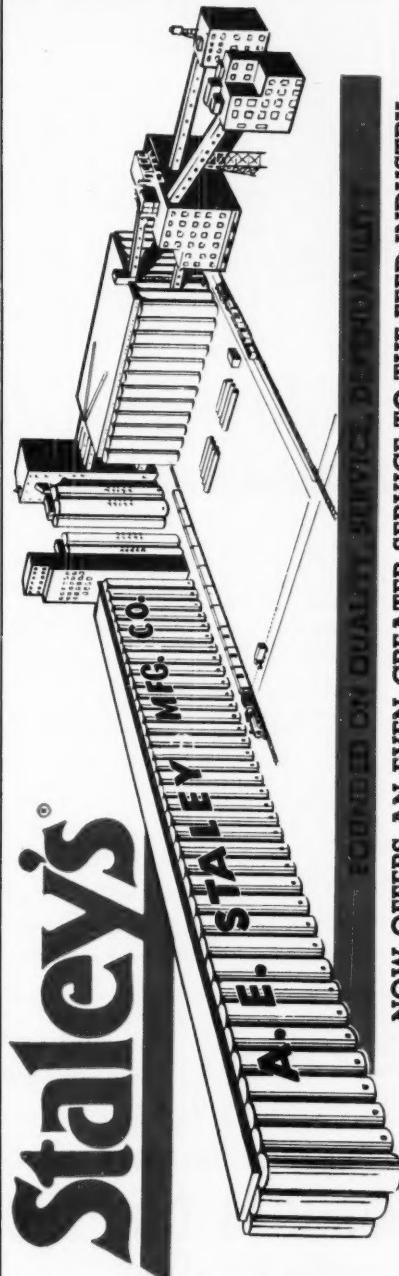
BULK OR SACKED

HAWKEYE

Soy Products Co.

MUSCATINE

IOWA



FOUNDED ON QUALITY SERVICE

NOW OFFERS AN EVEN GREATER SERVICE TO THE FEED INDUSTRY

For more than a quarter century Staley's Soybean Oil Meal has been recognized by the feeder and feed trade alike as the finest in high-quality protein feed.

In order to maintain this position, Staley's has greatly increased its storage facilities in an effort to render an even better service to those who also recognize and appreciate the dependability of our service.

We hope to merit your continued confidence through our quality of product, dependability and service.



A. E. STALEY MFG. CO.

DECATUR, ILLINOIS FEED DIVISION PAINESVILLE, OHIO

PROCESSORS—(Continued)

Chicago—SWIFT & CO., Union Stock Yards. Plants at Blytheville, Ark.; Cairo, and Champaign, Ill.; Des Moines, Iowa; Frankfort, Ind.; Fostoria, Ohio. (1) John Holmes; (2) C. T. Prinderville; (3) W. H. Souter; (4) A. L. Bruckner; oil mill dept. Scott E. Cramer. "Swift's" soybean oil meal and pellets. Expeller and medium-fat soy flour.

Chicago Heights—BISBEE LINSEED CO., 1120 Butler St. (1) A. D. Swift; (2) W. L. Lafaean, Jr.; (2, 4) E. B. Warner; (3) M. C. Gargan; (6, 8) T. Jacobson; (7) Fred Fett; (9) T. Boster. Served by C&EI, NYC, EJ&E, B&OCT RR.

Decatur—ARCHER - DANIELS MID-LAND CO. (See Minneapolis, Minn.)

Decatur—DECATUR SOY PRODUCTS CO., 518 E. Gault St. (1, 5, 6, 8, 9) Jasper Giovanna; (2) A. Becker; (3, 4) Carl Sorling; (7) Jess Beck; asst mgr. and traffic mgr., I. A. Hirsch. 9 exp., cap. 180 t. Storage cap. 500,000 bu. "Iillin'" soybean oil meal. Served by IC, Penn RR.

Decatur—SHELLABARGER MILLS, INC. (Gen. offices Citizens Bldg.) (1, 4) W. L. Shellabarger; (2, 5) R. E. Baer; (3) D. S. Shellabarger; (7) G. A. Weidemier; (6, 8) H. M. Rice. Solv. cap. 250 t. Storage cap. 1,000,000 bu. Served by IC, WAB, B&O, ITR, Penn, C&EI, NYC RR.

Decatur—SPENCER KELLOGG & SONS, INC. (See Buffalo, N. Y.)

Decatur—A. E. STALEY MFG. CO. Plant at Painesville, Ohio. (1) A. E. Staley, Jr.; (2) E. K. Scheiter; (3) R. C. Scherer; (4) R. S. Bass; (5) H. J. Kapp; (6) M. J. Longbons; (7) Dr. R. E. Greenfield; (8) H. T. Morris; mgr. soybean div. P. R. Ray. Exp. and Hexane solv. "Staley's" oil meal and pellets. Extracted hi-fat and lo-fat soy flour.

East St. Louis—COLCHESTER PROCESSING CO. (1) E. C. Andrews; (2, 5, 6, 8) E. L. McKee; (3, 4) E. F. Dumeyder; (7) C. Karraker; (9) Wallace V. Weidner. 1 exp. 22½ t. cap. "Colpro" soybean oil meal.

Galesburg—GALESBURG SOY PRODUCTS CO. 1021 S. Henderson St. (1, 5, 6, 8) Max Albert; (2) Lester R. Uretz; (2) Betty Uretz; (2, 6, 9) Max Kantor; (3, 4) Anna S. Albert; asst. vice presidents, Eleanor Simon and Lois Shaffer; (7) L. A. Townsend. 6 exp., cap. 150 t. Storage cap. 425,000 bu. "Triple Value" brand 41% protein soybean oil meal. Served by CB&Q, AT&SF RR.

Gibson City—CENTRAL SOYA CO., INC. (Head offices Ft. Wayne, Ind.) (9) T. H. Allwein. 12 exp., cap. 350 t. Solv., cap.

400 t. Storage cap. 4,000,000 bu. "Central Star Brand" soybean oil meal. "Centrol" lecithin. "Centrol" soybean oil products. "Master Mix" concentrates and complete feeds.

Ipava—IPAVA FARMERS PROCESSING CO., affiliate of Ipava Farmers Elevator Co., also at New Philo and Cuba, Ill. (1) P. J. Fleming; (2) L. S. Robinson; (3, 4) J. D. Larue; (5, 6, 8) Phil Snedecker; (7) Leland Foster; (9) and gen. mgr., C. O. Snedecker. 2 French pr., cap. 37 t. Storage cap. 250,000 bu. "Ipco" soybean oil meal. "Its-Top Notch" mixed feeds and pellets. Served by CB&Q RR.

Kankakee—BORDEN'S SOY PROCESSING CO., Grinnell Road. (Division of the Borden Co.) (1) C. F. Kieser; (2) Edward M. O'Connor; (3, 4) P. J. Queroli; (5, 6, 8) J. R. Pentis; (7) Harry Merriman; (9) G. W. Harris. Naptha solv., cap. 225 t. Storage cap. 900,000 bu. "Borden's" soybean oil meal. Served by NYC RR.

Mascoutah—PH. H. POSTEL MILLING CO. (1) B. H. Postel; (2) D. M. Braswell; (3, 4) A. S. Lee; (5, 7) John Cripe; (6, 8, 9) J. W. Huegely. 2 exp., cap. 36 t. Storage cap. 200,000 bu. "Elegant" soybean oil meal and feeds. Served by L&N RR.

Monmouth—RALPH WELLS & CO., 530 S. 3rd St. (Plant at 600 S. Third). (1) Ralph Wells; (2, 5) Willis H. Wells; (3, 9) Adrian R. Wells; (4, 6, 8) Norman Wells; (7) Garth Alexander. 2 exp., cap. 25-27 t. Storage cap., Monmouth 210,000 bu.; Cameron, Ill., 15,000 bu.; Gerlaw, Ill., 10,000 bu. "Wells Pure Old Process" soybean oil meal. Served by CB&Q, M&StL RR.

Nashville—HUEGELEY ELEVATOR CO. (1, 5, 6, 8, 9) J. W. Huegely; (2, 3, 4) Ralph Lesemeyer; (7) Joe Pavolish. 1 exp. Storage cap. 175,000 bu. "H" brand soybean oil meal. Served by L&N, M&I RR.

Norris City—NORRIS CITY MILLING CO. Operated by Postel Milling Co. for the receiver. 2 exp., cap. 30 t. Storage cap. 50,000 bu. Served by B&O RR.

Pana—SHELLABARGER MILLS, INC. (Offices Citizens Bank Bldg., Decatur, Ill.) (1, 4) W. L. Shellabarger; (2, 5) R. E. Baer; (3) D. S. Shellabarger; (6, 8) H. M. Rice; (7) L. H. Kasper. Exp. cap. 150 t. Storage cap. 1,000,000 bu. "Shellabarger's" soybean oil meal.

Peoria—ALLIED MILLS, INC. General office, 3400 Board of Trade Bldg., Chicago 4, Ill. Expeller plant. (7) J. B. Dehaven, Jr.; (9) G. R. Baumbach. "Wayne" soybean oil meal, mixed feeds and pellets.

Sunflower Brand 41% and 44% Meal and Oil

- CAR OR TRUCK LOTS
- PHONE 3000 - EMPORIA, KANS.

KANSAS SOYA PRODUCTS CO., INC.

EMPORIA, KANSAS • KANSAS CITY, KANSAS



Symbol of QUALITY and SERVICE

Today, more than ever before, quality and service are all important to the buyer of SOYBEAN PRODUCTS.

The Chemical Division of General Mills, as processors of soybeans and refiners of a complete line of technical soybean oils for the industrial trade, stands ready to meet the challenge of today's quality and service needs.

GENERAL MILLS CHEMICAL DIVISION PRODUCTS include

- Refined Soybean Oils and Lecithin
- Distilled and Fractionated Soybean Fatty Acids
- 44% Protein Extracted Soybean Oil Meal
- Aliphats, Nitriles, Amines and Polyamide Resins

— products produced in modern plants under the most exacting controls for both general and specific uses.

General Mills, Inc.

CHEMICAL DIVISION

Minneapolis, Minnesota

PLANTS LOCATED AT BELMOND, IA., KANKAKEE, ILL., AND ROSSFORD, OHIO

PROCESSORS—(Continued)

Quincy—QUINCY SOYBEAN PRODUCTS CO., 111 S. Front St. (1, 5, 6, 8) Irving J. Rosen; (7, 9) W. V. Simmons; office mgr., W. E. Sigmaoose. 9 exp., cap. 150 t. Also new French solv. plant, cap. 250 t. Storage cap. 600,000 bu. "Purity" 41% protein soybean oil meal. Served by Wab, CB&Q RR.

Roanoke—EUREKA MILLING CO. (1, 5, 6) J. D. Schumacher; (3, 4) Mattie Leman; (7) E. L. Herbst; (8, 9) J. H. Schumacher. 1 exp., cap. 15 t. Storage cap. 100,000 bu. "EMCO" soybean oil meal and feeds. Served by AT&SF RR.

Rock Falls—STERLING SOYBEAN CO., INC. (1, 5) Edw. J. McGinn; (2, 9) H. V. McGinn; (3, 4, 6, 8) O. L. McGinn. 3 exp., cap. 60 t. Storage cap. 300,000 bu. "Old Process" soybean oil meal. Served by CB&Q, C&NW RR.

Taylorville—ALLIED MILLS, INC. General office, 3400 Board of Trade Bldg., Chicago 4, Ill. Hexane solv. plant. (7) L. L. Meriwether; (9) I. C. Bradley. "Wayne" soybean oil meal, mixed feeds and pellets. Served by Wab, B&O RR.

Vermont—BADER SOY PRODUCTS CO., owned by Bader & Co. Offices at Astoria, Rushville, Prairie City, Walnut Grove, Ma-comb, Swan Creek, Adair. (1, 5, 6, 7, 8) B. B. Bader; (2) Myron Shaw; (3, 4) Harry Chick; (9) Franklyn Long. 1 exp., cap 25 t. Trichlorethylene solv. plant, cap. 25 t. Storage cap. 320,000 bu. "Bader's" soybean oil and meal. "Bader's Atomic" mixed feeds and pellets. Served by CB&Q RR.

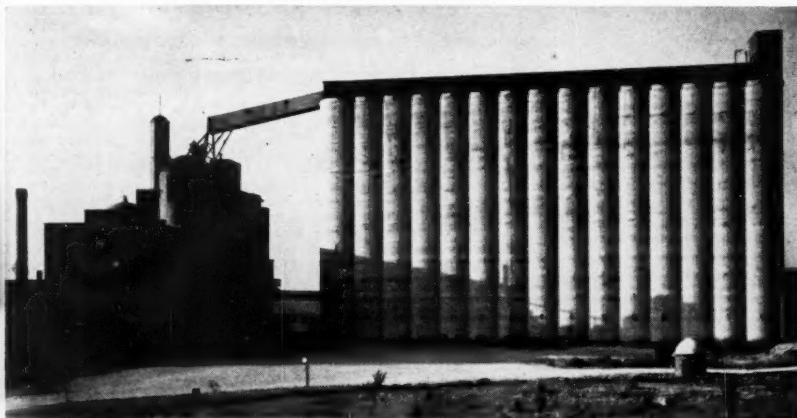
Virden—HULCHER SOYA PRODUCTS, INC. (1) Norman E. Hulcher; (3, 4) Harold L. Foster; (7) Herman Helmerich; (9) John Curran. 2 exp., cap. 35 t. Storage cap. 225,000 bu. "Hulcher Old Process" soybean oil meal. Served by GM&O RR.

INDIANA

Angola—ANGOLA SOYA CO., N. Williams St., P. O. Box 358. Solv., cap. 5 t. Storage cap. 1400 bu. Partnership, Reginald Hale and Alfred Hale. Served by NYC RR.

Decatur—CENTRAL SOYA CO. (Head offices Ft. Wayne, Ind.) (9) C. I. Finlayson, 20 exp., cap 450 t. Solv., cap. 400 t. Storage cap. 6,450,000 bu. "Central Star Brand" soybean oil meal. "Centrol" lecithin, "Centrol" soybean oil products. "Master Mix" concentrates and complete feeds.

Ft. Wayne—CENTRAL SOYA CO., INC. 300 Fort Wayne Bank Bldg. (Plants at Gibson City, Ill.; Decatur, Ind.; Marion, Ohio.) Chmn. of board, Dale W. McMillen, Sr.; (1) Fred W. Thomas; (2) Harold W. McMillen, W. E. Huge, Geo. D. MacLean, Charles W. Crowe, Norman F. Kruse, J. L. Kridler; (3, 4) Edward T. Schele; ass't. sec. and comptroller, Richard N. Allen; (5, 6) W. E. Huge; (8) B. A. Townsend; director of sales feed div., J. L. Kridler. "Central Star Brand" soybean oil meal, "Centrol" lecithin, "Centrol" soybean oil products. "Master Mix" concentrates and complete feeds. Served by Penn, Erie, NP, IC, Wab, C&O, NYC RR.



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PROCESSORS—(Continued)

Frankfort—SWIFT & CO., (Home office Chicago, Ill.) (5, 9) S. D. Hollett; (7) A. J. Sibley; (8) J. K. Omrig. "Swift's" soybean oil meal.

Indianapolis—GLIDDEN CO., 1160 W. 18th St. (1) Dwight P. Joyce; (2) R. G. Golseth; (3) R. D. Horner; (4) J. A. Peters; (5) M. M. Darling; (6, 8) F. M. Ferguson; (7) Clayton Vogt. Hexane solv., cap. 250 t. Storage cap. 1,500,000 bu. "Glidden Quality Products" soybean oil meal, mixed feeds and pellets.

Lafayette—RALSTON PURINA CO., Wabash Ave. (Head office St. Louis, Mo.) (7) N. R. Adkins; (9) Ralph M. Guenther. 6 exp., cap. 145 t. Storage cap. 800,000 bu. "Purina Chows" feeds.

Marion—HOOSIER SOYBEAN MILLS, INC., 33rd and Nebraska St. (1) H. G. Hippis; (5, 6, 8) Wm. E. Ohlemeyer; (7) M. B. McVicker. 5 exp. Storage cap. 230,000 bu. "Hoosier" soybean oil meal. Served by NYC, NKP, C&O, Penn RR.

Peru—MID-STATES FATS & OILS CORP., P. O. Box 365. (1) Paul J. Sicano; (2 and gen. mgr.) Wm. B. Goff; (3, 4) Geo. Shaw.

Portland—HAYNES SOY PRODUCTS, INC. (1, 6, 9) Clarence E. Peters; (2, 4) W. H. Starbuck; (3) John C. McCrum; (5, 8) Walter V. Hilfiker; (7) Earl A. Thomas. 4 exp., cap. 100 t. Storage cap. 255,000 bu. "Haynes Soy Products" soybean oil meal. Served by Penn, NKP RR.

Rushville—RUSH COUNTY FARM BUREAU CO-OP. ASSN. (Subsidiary Indiana Farm Bureau Co-op Assn.) (1) Wendell Kirkpatrick; (3) Rea Ging; (5) Lawrence Alsop; (6, 7, 8, 9) Howard Earnest. 1 exp., cap. 15 t. Storage cap. 50,000 bu. "Farm Bureau" soybean oil meal, mixed feeds and pellets. Served by B&O, NYC, NN RR.

Wabash—WABASH CO. FARM BUREAU CO-OP. ASS'N., 179 E. Sinclair St. (Affiliate of Ind. Farm Bureau Coop. Assn.) Plants also at Speicher and Treaty. (1) P. J. Milan; (9) Dwain Amones; county mgr., Joe Wise. 1 exp., cap. 18 t. Storage cap. 150,000 bu. "Farm Bureau Co-op" soybean oil meal. Served by Wab, NYC RR.

IOWA

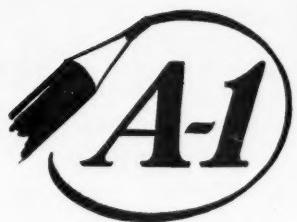
Belmond—GENERAL MILLS, INC., chemical div. (Office, Minneapolis, Minn.) Grain buyer and office mgr., H. C. Stokke; (7) W. B. Hotvet. Hexane solv., cap. 250 t. Storage cap. 1,500,000 bu. "General Mills 44%" protein solv. (Hexane) extracted soybean oil meal.

Cedar Rapids—CARGILL, INC. Head office 200 Grain Exchange, Minneapolis 15, Minn. (9) C. W. Bohlander. Solvent. "Cargill" soybean oil meal.

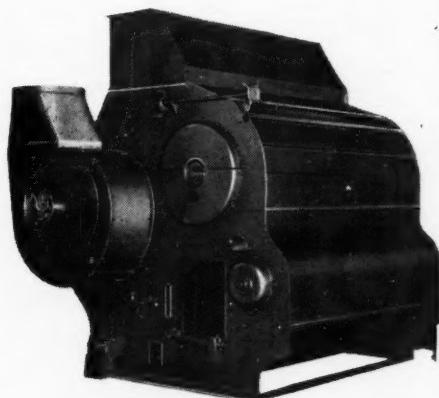
Cedar Rapids—IOWA MILLING CO., 411 6th St., N.E. (1) Joe Sinaiko; (3) Samuel Maslon; (5, 6, 8) H. R. Scroggs. Hexane solv. cap. 300 t. Storage cap. 600,000 bu. "Hygrade" soybean oil meal. Served by CMStP&P RR.

Cedar Rapids—QUAKER OATS CO. (Home office Merchandise Mart Plaza, Chicago 54, Ill.) Soybean oil and meal. Served by C&NW RR.

Centerville—PILLSBURY MILLS, INC. (Offices feed and soy div., Clinton, Iowa.) (1) C. H. Hendrix; (2) H. R. Schultz, D. W. Hunter; (5) E. E. Fletcher; (6) and meal sales, R. C. Ilstrup; (7) Floyd Crowe; (9) Phil C. Murray. Exp. plant, cap. 120 t. daily. Storage cap. 600,000 bu. Crude soybean oil and soybean oil meal.



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PROCESSORS—(Continued)

Clinton—PILLSBURY MILLS, INC., 200 Wilson Bldg. (See under Centerville, Iowa.) (5) Walter Slikkema; (6) and meal sales, R. C. Iistrup; (7) Harry Krick; (9) A. L. Petersen Solv. ext., cap. 250 t. Storage cap. 1,000,000 bu. Soybean oil (crude and once refined), soybean oil meal and soybean lecithin.

Des Moines—SPENCER KELLOGG & SONS, INC. (See under N. Y.)

Des Moines—SWIFT & CO., Box 38, Highland Park Station. (Home office Chicago, Ill. (5, 9) C. D. Whitaker; (8) C. J. Anderson; (7) G. G. Scott. "Swift's" soybean oil meal.

Dike—FARMERS' COOPERATIVE CO. (1) Heye Dieken; (2) Horace D. Brown; (3) Edward Sherwood; (5) C. M. Gregory. 2 exp., cap. 40 t. Storage cap. 510,000 bu. "Felco" soybean oil meal and feeds. Served by C&NW RR.

Dubuque—DUBUQUE SOY PRODUCTS CO., 18th and Sycamore Sts. (5, 6, 8) Jack Edson; (7) F. J. Beckwith; (9) Ceell G. Johnson. 2 exp., cap. 40 t. Storage cap. 100,000 bu. Served by CMST&P RR.

Eagle Grove—BOONE VALLEY COOPERATIVE PROCESSING ASSOCIATION. (1) Ralph Olson; (2) Harry Bernard; (3, 4) Floyd Crim; (5) Jim Farrell; (7) Charles Loux; gen. mgr., Edward Olson; ass't. mgr., Donald Laurent; sec., Rachel Godfrey. 4 exp., cap. 75 t. Storage cap. 20,000 bu. "Co-op" soybean oil meal, feeds and pellets. Served by C&NW, CGW RR.

Fayette—FAYETTE SOY BEAN MILL. (Owned by Chas. and C. J. Halverson) (9) L. A. Rose. 2 exp., cap. 37 t. Storage cap. 170,000 bu.

Fort Dodge—BORDEN'S SOY PROCESSING CO. (See under Waterloo.) Storage cap. 300,000 bu.

Fort Dodge—CARGILL INC. Head office, 200 Grain Exchange, Minneapolis 15, Minn. (9) R. F. Hubbard. Solvent. "Cargill" soybean oil meal and pellets.

Gladbrook—CENTRAL IOWA BEAN MILL. (1, 4, 5, 6, 8, 9) Paul H. Klinefelter; (2, 3) Florence N. Klinefelter. 4 exp., cap. 60 t. Storage cap. 450,000 bu. "Soya, Chief of the Feeds" soybean oil meal. Served by C&NW, CGW RR.

Iowa Falls—RALSTON PURINA CO. (Head office St. Louis, Mo.) (5, 9) H. N. Johnson; (7) Geo. W. Oswald. 7 exp., cap. 170 t. Solv., cap. 250 t. Storage cap. 1,360,000 bu. "Purina Chows" feeds.

Manly—NORTH IOWA COOPERATIVE PROCESSING ASSN. (1) Earl M. Dean; (2) C. D. Daniels; (3, 4) Earl L. Dickinson; (7) Harold Tietjens; (9) Glenn Pogeler. 2 exp., cap. 40 t. Storage cap. 140,000 bu. "Felco" soybean oil meal. Served by M&StL, CGW, CRI&P RR.

Marshalltown—MARSHALL MILLS, INC., Washington and 2nd St. (1) Fred Johnson; (2, 7) J. B. Saccaro; (3, 5, 6, 8) J. L. Johnson; (4) Vernon N. Johnson. 3 exp., cap. 70 t. Storage cap. 50,000 bu. Served by M&StL, C&NW, CGW RR.

Muscatine—HAWKEYE SOY PRODUCTS CO. Office 500 E. 2nd St.; Plant, Orange and Front St. (Affiliate of McKee Feed & Grain Co.) (1, 5) L. R. McKee, sole owner; (5, 6) H. G. McKee. 2 exp., cap. 30 t. Storage cap. 250,000 bu. "Hawkeye" soybean oil meal. Served by RI, Milw RR.

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PROCESSORS—(Continued)

Musentine — MUSCATINE PROCESSING CORP., 205 Green St. (1) S. G. Stein; (2) F. J. Prochaska, G. A. Kent; (3) R. C. Kautz; (4) V. B. Snyder; (5) M. C. Larson; (6, 8) C. D. McDermott; (7, 9) H. A. McFate. Solv. cap. 100 t. Storage cap. 500,000 bu. "Port City" soybean oil meal.

New Hampton — EASTERN IOWA MILLING CO. Owned and operated by G. A. Ward. 1 exp., cap. 20 t. Storage cap. 110,000 bu.

Plainfield — ROACH SOYBEAN MILLS, INC. (Subsidiary J. Roach Sons, Inc.) (1) Howard L. Roach; (2) James L. Roach; (4) E. R. Roach; (3, 5, 6, 7, 8, 9) John P. Roach. Trichlorethylene solv., cap 18 t. Storage cap. 150,000 bu. "Roach" soybean oil meal. "Roach's Rations." Served by IC RR.

Quimby — SIMONSEN MILL-RENDERING PLANT, 2 ml. w. of Quimby. Mgr. Doyle W. Simonsen; (9) Alton Simonsen. 4 exp., cap. 40 t. Storage cap. 90,000 bu. "Simonsen" soybean oil meal and mixed feeds. (Also process flax.)

Ralston — FARMERS COOPERATIVE ASSOCIATION. (1) L. H. Gregory; (2) Otis Knight; (3, 4) Carl R. Cook; (5, 6, 8) Karl Nolin; (7) Frank Smith. 3 exp., cap. 50 t. Storage cap. 685,000 bu. "Farmers" soybean oil meal and pellets. Served by CNW RR.

Redfield — IOWA SOYA CO., INC. (1) H. R. Straight; (2, 9) Donald C. Ogg; (4) John Vanier; (3, 6, 8) J. D. Frantz; (5) Byrle Spillers; (7) Ray Rigganbach; plant chemist, D. H. Kingsley. Naptha solv., cap. 300 t. Storage cap. 1,050,000 bu. "Redfield" soybean oil meal. Served by CM&P RR.

Sac City — WILLIAMS MILLING CO. Gen. mgr., Leo W. Williams; (5) R. C. Hink; (7) Glenn Sams; (8) J. C. Laughlin. 4 exp., cap. 80 t. Storage cap., Sac City 260,000 bu., Nemaha 100,000 bu., Lake View 100,000 bu., Lytton 40,000 bu. "Williams" soybean oil meal, feeds and pellets. Served by CM&StP RR.

Sheldon — BIG 4 COOPERATIVE PROCESSING ASSOCIATION. 111 9th St. (1) Ed Dobbertin; (2) Doores Waanders; (3, 4) L. M. Penning; (5, 6, 9) Charles W. Hanson; (7) Reuel Jacobs; (8) Lee Alward. 4 exp., cap. 80 t. Storage cap. 55,000 bu. "Felco" soybean oil meal. Served by IC, CStPM&O RR.

Sioux City — SIOUX SOYA MILLS, 11th and Clark St. (1) Henry M. Sherman; (2) E. N. Grueskin; (2, 5, 6) A. Irving Sherman; (3) Mike Sherman; (4) Phillip Sherman; (7) A. G. Kliwer; (8) Roy C. Folkins; (9) Don Cameron. 4 exp., cap. 85 t. Solv. cap. 120 t. Storage cap. 500,000 bu. "Su Soy" soybean oil meal and pellets. Served by IC, Milw., CNW RR.

Spencer — CARGILL, INC. (Head office 200 Grain Exchange, Minneapolis 15, Minn.) (9) W. J. Wheeler. Solv. "Cargill" soybean oil meal and pellets.

Washington — CARGILL, INC. (Head office 200 Grain Exchange, Minneapolis 15, Minn.) (9) Hugo Lensch. Solv. "Cargill" soybean oil meal and pellets.

Waterloo — BORDEN'S SOY PROCESSING CO. (Division of Borden Co., New York, N.Y.) Plants at Waterloo and Fort Dodge, Iowa; Kankakee, Ill. (1) C. F. Kleser; (2, 6, 9) Edward M. O'Connor; (3, 4) P. J. Queroli; (5, 8) A. C. Smith; (7) F. P. Parkin. 5 French screw pr., cap. 90 t. Naptha solv., cap. 240 t. Storage cap. 1,000,000 bu. "Borden's Cedar Valley Brand Old Process" soybean oil meal. Served by WCF&N and CRI&P RR.

PROCESSORS—(Continued)

West Bend—WEST BEND ELEVATOR CO. (1) R. B. Berninghaus; (2) John Bleuer; (3, 4) A. B. Carter; (5, 6, 8, 9) R. W. Jurgens; (7) Harold W. Baas. 1 exp., cap. 20 t. Storage cap. 575,000 bu. "Felco" soybean oil meal and feeds.

KANSAS

Coffeyville — CONSUMERS COOPERATIVE ASSN. SOYBEAN MILL. (Office 138 E. 10th St., Kansas City, Mo.) (1) H. A. Cowden; (7, 9) Clayton Hejtmanek. 2 exp.; cap. 55 t. Storage cap. 330,000 bu. "Co-op" soybean oil meal and pellets.

Emporia — KANSAS SOYA PRODUCTS CO., INC. Offices E. Fifth Ave. (1) J. J. Morris; (2) and gen. mgr., Elmer L. Buster; (3, 4) Everett Steerman; (2, 4) Donald Johnson; (7) T. R. Barnhart. 3 exp., cap. 40 t. Hexane solv., cap. 125 t. Storage cap. 550,000 bu. "Sunflower" soybean oil meal, pellets and feeds. Served by MKT, ATSF RR.

Fredonia — ARCHER - DANIELS - MID-LAND CO. (See Minneapolis, Minn.)

Girard — PRODUCERS COOPERATIVE ASSN. Manager, S. O. Frey. 1 exp., cap. 22½ t. Storage cap. 250,000 bu. "Producer" soybean oil meal and feeds. Served by SLSF, SF RR.

Hinawatha — THOMSON SOY MILL, 10th and Miami. (1) A. G. Thomson; (7) C. E. Nelson. Trichlorethylene solv., cap. 30 t. Storage cap. 90,000 bu. "Scotch" soybean oil meal and pellets. Soy flour. Served by UP, MP RR.

Kansas City — KANSAS SOYA PRODUCTS CO., INC. 18th & Bayard. (See under Emporia, Kans.) (7) Claude Yeamans. 5 exp., cap. 125 t. Storage cap. 250,000 bu.

"Sunflower" soybean oil meal and pellets. Served by MKT, AT&SF RR.

Wichita — SOY-RICH PRODUCTS, INC. Office 507 Wheeler Kelly Hagny Bldg. Plant 1501 N. Mosley. (1) Geo. Armstrong; (2) War Brooks; executive v. p. Ralph S. Moore; (3, 4) Elmer C. Moore; assistant sec. and treas. Harold J. Moore; (7) Jess Turner; (8) J. W. Thelman. 2 exp., cap. 60 t. Solv. cap. 150 t. Storage cap. 75,000 bu. "Four Leaf Clover" soybean oil meal and pellets. Served by AT&SF, FCO, MP, I.I. MV RR.

KENTUCKY

Henderson — OHIO VALLEY SOYBEAN COOPERATIVE. (1) Charles B. Smith; (2) Oscar D. Keck; (3, 4, 5, 6, 8, 9) G. W. Allen; (7) A. I. Feisz. 3 exp., cap. 70 t. 85 ton solvent unit. Storage cap. 765,000 bu. "Cardinal Quality" soybean oil meal. Served by L&N, IC RR.

Louisville — BUCKEYE COTTON OIL CO. (7) Jack Gardner; dist. mgr., E. L. Newman.

Louisville 10 — LOUISVILLE SOY PRODUCTS CORP. Plant 2400 S. Brook St. Warehouse 1361 So. 15th St. (1, 5) Harold A. Miller; (3) Arthur J. Deindorfer; (6, 8) Howard A. Brennan; (7) Walter J. Stone. Hexane solv., cap. 150 t. Storage cap. 300,000 bu. "Lou Soy" soybean oil meal. Served by LN, Sou RR.

Owensboro — OWENSBORO GRAIN CO. (1) Wm. M. O'Bryan; (3) Hugh P. Aud; (2) Henry E. O'Bryan. 4 exp., cap. 75 t. 1 exp., cap. 100 t. Storage cap. 350,000 bu. "Greendale" 41% solv. soybean oil meal and "Ograco" 44% solv. soybean oil meal.

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PROCESSORS—(Continued)

LOUISIANA

Alexandria — RED RIVER COTTON OIL CO., INC., 514 N. 16th St. (1) J. E. Byram; (2, 5, 6, 8) J. E. Byram, Jr.; (3, 4) L. C. Waddell; (7) H. L. Zoder. 10 hydraulic pr., 3 exp., cap. 100 t. Storage cap. 500,000 bu. Served by MP, TP, L&A, KCS RR.

New Orleans 12 — SOUTHERN COTTON OIL CO., 210 Baronne St. Dist. offices Goldsboro, N. C.; Columbia, S. C.; Atlanta, Ga.; Cullman, Ala. (1) A. Q. Petersen; (2) W. F. Guiney; (2) M. W. Lyons; (2) L. C. Haskell, Savannah, Ga.; (2) E. A. Geoghegan; (3) W. F. Hoerner; (4) C. M. Carriere.

Shreveport — SOUTHLAND COTTON OIL CO. (See Paris, Texas.)

Tallulah — TALLULAH OIL MILL & GIN, Box 590. (Affiliate of Mississippi Cottonseed Products Co.) (5, 6, 8, 9) Maxwell Yerger; (7) J. L. Rush. 9 hyd. pr., cap. 55 t. Storage cap. 125,000 bu. 41% protein soybean oil meal. Served by IC, MP RR.

West Monroe — UNION OIL MILL, INC. (1) C. W. Wallace; (2) F. W. Scott; (3, 4) A. B. Colmer; (7) C. N. Anderson. 4 exp. Solv. cap., 150 t. Storage cap. 300,000 bu. "Union" soybean oil meal, cottonseed meal and pellets. Annual crush 300,000 bu. Served by IC RR.

MINNESOTA

Blooming Prairie — FARMERS CO-OP ELEVATOR ASSN., soybean processing div. (1) Ormano Peterson; (2) Harold Symes; (3, 4) T. B. Peterson; (5, 6, 8, 9) Wilbur P. Bidne; (7) Don Sandberg. Trichlorethylene solv., cap. 25 t. Storage cap. 120,000 bu. "Prairie" 44% soybean oil meal. "Prairie" 44% soybean flakes and "Farmers Best" feeds.

Dawson — TRI-COUNTY COOPERATIVE SOYBEAN ASSN. (1) Carl M. Hanson; (2) Melvin Knutson; (3) Morris Envoldsen; (4) Glenn Blomquist. Trichlorethylene solv., cap. 25 t. Storage cap. 80,000 bu. "Tri-County" soybean oil meal.

Glencoe — FARMERS & MERCHANTS MILLING CO., INC., 1011 Elliot. (1) Lars Liefson; (2) John Bednar; (3) Hubert Smith; (4) Frank Heaney; (5, 6, 8, 9) Clifford J. Olsen; (7) Warren Pliesels; ass't mgr., R. M. Edstrom. Trichlorethylene solv., cap. 25 t. Storage cap. 20,000 bu. "Glencoe" soybean oil meal, feeds, pellets. Served by CMSnP&P RR.

Lakeville — CONSUMER'S SOYBEAN MILLS, INC. (Office 1122 Flour Exchange Bldg., Minneapolis 15, Minn.) (1) Riley W. Lewis; (2) Harry J. Lewis; (3, 4) Donald E. Lewis; (7) Robert Diers. 4 exp., cap. 80 t. Storage cap. 120,000 bu. "Consumer's" soybean oil meal. Served by CMSnP&P RR.

Mankato — ARCHER - DANIELS - MIDLAND CO. (See Minneapolis, Minn.)

Mankato — HONEYMEAD PRODUCTS CO., 202 Given St. (1, 6, 8) Clive F. Marshall; (2, 3, 4, 5, 9) L. W. Andreas. 5 exp., cap. 250 t. Solvent plant. Served by O, NW, Milw., CGW RR.

Minneapolis — ARCHER - DANIELS - MIDLAND CO., 600 Roanoke Bldg. (Operates soybean processing plants at various points.) (1) T. L. Daniels; (2, 5) F. E. Benson; (2, 6) A. C. Hoehne; (8) John P. Broshard; mgr. soy flour sales, Wilfrid B. Cox. "Archer Brand" soybean oil meal, pellets and feeds. Defatted, low-fat and full-fat soy flour.



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Check the important reasons why Skellysolve quality satisfies: Close boiling ranges. Low order of toxicity. Sweet odor. Minimum of aromatics. Low sulphur content. A minimum of unsaturates, pyrogenic decomposition products, and excessively volatile compounds. And that's not the half of the Skellysolve quality story!

Compare, too, for fast vaporization from oils and meals, for low end points, freedom from greasy residues and low solvent losses.

And there's no question about dependability of supply! Even during the catastrophic 1951 flood, not one single Skellysolve customer ran out of solvent. Regardless of weather or other obstacles, the Skellysolve organization has earned the reputation for "delivering the goods" when you want them . . . where you want them!

Is yours an unusual solvent problem? Put it up to the Skellysolve Technical Fieldmen. For complete information, write us now.



Skellysolve

SOLVENTS DIVISION, SKELLY OIL COMPANY,
KANSAS CITY, MISSOURI

PROCESSORS—(Continued)

Minneapolis 15—CARGILL, INC. Offices 200 Grain Exchange. (Plants at Chicago, Ill.; Cedar Rapids, Fort Dodge, Spencer and Washington, Iowa; Port Cargill, Minn.; and Philadelphia, Pa.) (1) J. H. MacMillan, Jr.; (2) D. O. Andreas, head oil div. Served by CR, IC, C&NW, M&StL, MN&S, Milw., RI, Penn., B&O, Read RR.

Minneapolis — GENERAL MILLS, INC., chemical div. 700 General Mills Bldg. (Plants at Belmond, Iowa and Rossford, Ohio.) (1) W. H. Eastman; (2, and director of sales) S. D. Andrews, Jr.; (2, 6) W. E. Flumerfelt; (2) C. M. Dewey; (2) E. E. Woolley; (3) E. K. Smith; (5, 8) F. H. Hafner. "General Mills 44%" protein solv. (Hexane) extracted soybean oil meal.

Minneapolis — MINNESOTA LINSEED OIL CO. 25-44th ave. N.E. (1) E. H. Russell; (2) V. Wurtele; (3, 4) L. T. Gartner; (5) Ray Lindquist; (6) Carl H. Schinckel; (7, 9) George N. Walker; (8) John M. Strate. 18 exp., cap. 330 t. Solv., cap. 250 t. Storage cap. 1,038,000 bu. "Minnesota" soybean oil meal and pellets. Served by NP RR.

Minneapolis 2 — PILLSBURY MILLS, INC., 600 Pillsbury Bldg., feed and soy div. Plants at Clinton and Centerville, Iowa. Flour milling, soybean processing, feed manufacture and food products. Manufacture crude and refined soybean oil, meal, lecithin and mixed feeds.

Port Cargill—CARGILL, INC. Head office 200 Grain Exch., Minneapolis 15, Minn. 11 exp., solv. plant. (9) Harvey Marxhausen.

Preston—PRESTON SOYA MILLS, INC. (Registered office, Mapleton, Minn.) (1) Everett A. Frank; (2) P. H. Hegnauer; (3,

4, 5, 6, 8) Edward G. Frank; (7, 9) Ed Stein-kopf. 3 exp., cap. 50 t. Storage cap. 140,000 bu. "Presto" soybean oil meal. Served by CMStP&P RR.

MISSISSIPPI

Belzoni — BELZONI OIL WORKS, INC. (1) Irby Turner; (2) L. S. Stoner; (3, 4) John Holbrook; (5, 6, 8 & gen. mgr.) H. H. Gantz; (7) Jack Berry. Storage cap. 200,000 bu. "Belco" meal.

Belzoni — HUMPHREYS COUNTY OIL MILL (Owned by Mississippi Cottonseed Products Co.) (7) H. C. Switzer; mgr., S. A. Pittman. 9 screw pr. cap. 50 t. Storage cap. 150,000 bu. Soybean operations, 4,000-8,000 t.

Clarksdale — PLANTERS MFG CO. (1) C. G. Smith; (2) C. G. Bobo; (2) E. L. Anderson, Jr.; (3, 4, and gen. mgr.) A. K. Shaffer. 3 exp., cap. 65 t. Solv. cap. 200 t. Storage cap. 500,000 bu. 41% protein expeller process soybean oil meal; 44% protein solv. extracted soybean oil meal. Served by IC RR.

Columbus — SOUTHERN COTTON OIL CO. (Dist. office, Culman, Ala. Main office 210 Baronne St., New Orleans 12, La.) (7) J. L. Tennent, Jr.; (9) Y. E. Travis.

Corinth—BUCKEYE COTTON OIL CO. Dist. mgr., A. J. Vaughan, Jr.; (7) N. A. Garrison.

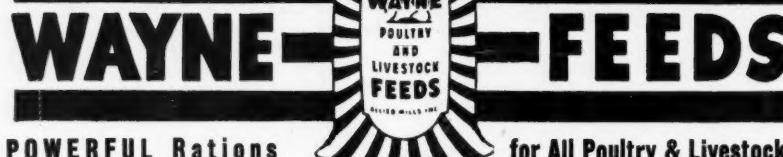
Greenville—GREENVILLE OIL WORKS. (Office, Mississippi Cottonseed Products Co., Box 316.) (5) C. A. Lund; (6, 8, 9) Hal Harris; (7) B. C. Lundy; G. B. Crittenden, ass't mgr., V. J. Lusk, cashier. 15 screw pr. cap. 100 t. Storage cap. 150,000 bu. Served by IC, C&G RR.

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If soybeans were purchased for oil alone, the price to growers likely would be far less than it is today. But by building a mass outlet for soybean meal as an important ingredient in WAYNE FEEDS, Allied Mills, Inc. helps the grower realize greater profits on his crop. In addition, special WAYNE soybean balancers increase efficiency of soybean feeding on the farm. For these reasons, every bag of WAYNE FEED used furthers the cause of the soybean industry.

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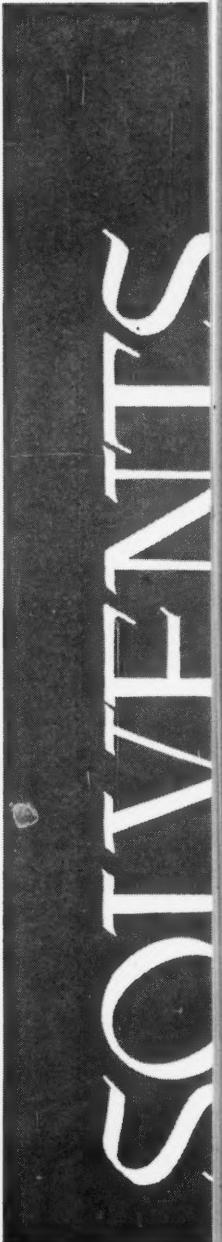
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QUINCY, ILLINOIS

PROCESSORS—(Continued)

Greenville — MAGNOLIA SOY PRODUCTS CO., Hiway No. 1 and Theobald, Box 183. (1) J. M. Warren; (2, 9) L. L. Ford; (3) Lyman Reed; (7) Fred Ferguson. Trichlorethylene solv., cap. 125 t. Storage cap. 300,000 bu. "Magnolia" soybean oil meal. Served by IC, C&G RR.

Greenville — REFUGE COTTON OIL CO. (Affiliate Southern Cotton Oil Co., 210 Baronne St., New Orleans 12, La.) (7) T. W. Kelly; (9) J. B. Baird.

Greenwood — BUCKEYE COTTON OIL CO. Dist. mgr., W. W. Scruggs; (7) W. G. Quinn.

Greenwood — PLANTERS OIL MILL (Branch of Mississippi Cottonseed Products Co., Standard Life Bldg., Jackson, Miss.) (7) G. R. Simpson; (9) N. F. Howard. 3 Fr. screw pr., cap. 75 t. Storage cap. 250,000 bu. Served by IC RR.

Grenada — GRENADA OIL MILL, Box 1125, Line St. and I.C.R.R. Co. (Affiliate Mississippi Cottonseed Products Co.) (1) H. E. Covington; (2) J. B. Perry, Jr.; (3, 4) J. R. Mason. 9 hydraulic pr., cap. 60 t. Operations 20% soybeans. Served by IC RR.

Indianola — SUNFLOWER COTTON OIL CO., P. O. Box 389. (Owned by Mississippi Cottonseed Products Co., Jackson, Miss.) (1) H. E. Covington; (3) J. R. Mason; gen. mgr., J. B. Perry, Jr. 12 hydraulic pr., cap. 60 t. Storage cap. 350,000 bu.

Jackson — BUCKEYE COTTON OIL CO. Dist. mgr., R. R. Mills; (7) E. A. Gaulding.

Jackson — MISSISSIPPI COTTON OIL CO. (Gen. office, Standard Life Bldg.) Plant 177 N. Gallatin. (Affiliate of Mississippi Cottonseed Products Co., Jackson, Miss.) 12 hydraulic pr. Served by IC RR.

Jackson — SOUTHLAND COTTON OIL CO. (See Paris, Texas.)

Magnolia — MAGNOLIA COTTON OIL CO. (Affiliate of Mississippi Cottonseed Products Co., Jackson, Miss.) (1) H. E. Covington; (2) J. B. Perry, Jr.; (3, 4) J. R. Mason; (5, 6, 8, 9) G. E. Covington; (7) James Burrows. 12 hydraulic pr., cap. 65 t. Storage cap. 250,000 bu. "Magnolia" soybean oil meal and pellets. Operation 50% soybeans. Served by IC RR.

Marks — RIVERSIDE OIL MILL. (9) W. K. Self. 5 screw pr., cap. 120 t. Also solv. plant. Storage cap. 400,000 bu. "Expello" soybean oil meal.

Tunica — PLANTERS OIL MILL. (1) M. G. Burrow; (2) C. P. Owen; (3) Mrs. J. T. Watson; (5, 6, 8) C. E. White; (7) B. M. Julian. 12 hydraulic pr., cap. 80 t. Storage cap. 200,000 bu. Soybean oil meal.

Vicksburg — REFUGE COTTON OIL CO., P. O. Box 391. (Affiliate Southern Cotton Oil Co., 210 Baronne St., New Orleans 12, La.) (7) C. C. Hammett; (9) M. J. Harper.

MISSOURI

Kansas City — RALSTON PURINA CO., 2334 Rochester Ave. (Head office St. Louis, Mo.) (5) F. G. Franz; (7) W. H. Kamp; (9) John C. Skaggs. 6 exp., cap. 150 t. Storage cap. 500,000 bu. "Purina Chows" feeds.

Kennett — HEMPHILL SOY PRODUCTS CO. (1, 6) W. A. Hemphill; (2, 8) W. B. Hemphill; (3, 4) J. A. Hemphill; (5) Van Watson; (7) Paul King. 3 exp., cap. 80 t. Solv., cap. 90 t. Storage cap. 800,000 bu. "Circle H" soybean oil meal and pellets. Served by Frisco RR.

Kennett — KENNEDY OIL MILL, INC. (1) H. E. Covington; (2) P. B. Bartmess; (3, 4) E. O. DeField; (5, 6, 8, 9) N. P. Bartmess. Served by Frisco RR.

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PROCESSORS—(Continued)

Mexico—M.F.A. COOPERATIVE GRAIN & FEED CO. (Office 429 Cherokee St., St. Joseph, Mo. Affiliate Missouri Farmers Association) (1) F. V. Heinkel; (2) Roy D. Hatcher; (3) R. J. Rosier; (4) gen. mgr. A. J. Loutch; (7, 9) Maurice Maze 4 exp.; cap. 80 t. Storage cap., 650,000 bu. "M.F.A." soybean oil meal, feeds and pellets. Served by Wab, GMO, CBQ RR.

New Madrid—BUCKEYE COTTON OIL CO. Dist. mgr., R. W. Coursey; (7) W. J. Milligan.

Sikeston—SIKESTON COTTON OIL MILL CO., INC. (1) H. E. Covington; (2, 5, 6, 8, 9) P. B. Bartmess; (3) E. O. DeField; (7) J. V. Shelton 6 exp., cap. 120 t. Storage cap. 1,000,000 bu. Served by MP, Frisco RR.

St. Joseph—DANNEN GRAIN & MILLING CO., Box 429. Plant 900 Lower Lake Rd. (1) H. L. Dannen; (2) Dwight L. Dannen; (3, 4) E. A. Mannschreck; (5) A. E. Frank; (6, 8) E. A. Gumbert; (7) George Lippold; (9) Dudley Holbert. 6 exp., cap. 120 t., solv. cap. 100 t. Storage cap. 2,000,000 bu. at St. Joseph and branches in Iowa, Missouri and Nebraska. "Dannen" soybean oil meal, feeds and pellets. Served by MP, CB&Q, AT&SF, CRI&P, CGW, UP RR.

St. Louis—BLANTON MILL, INC., 3326 N. Wharf. (1) David A. Blanton, Jr.; (2, 5, 6, 8) Ross A. Woolsey, Jr.; (3, 4) John E. Dorn; (8) M. C. Baker; (9) C. Fuhrman; technical dir., Sidney J. Lanier. 3 exp., cap. 81 t. "Blanco" soybean oil meal.

St. Louis—RALSTON PURINA CO., 838 S. 8th St. (Plants at Circleville, Ohio; Iowa Falls, Iowa; Kansas City, Mo.; Lafayette, Ind.; and Bloomington, Ill.) (1) Donald Danforth; (5, 8) Donald B. Walker; (6) Lamar Kishlar; (7) Fred White; (9) H. L. Colwell. 6 exp., cap. 145 t. Storage cap. 1,225,000 bu. "Purina Chows" feeds.

Trenton—CENTRAL FARM PRODUCTS CO., 801 Harris Ave. (1) J. A. Knudsen; (2, 6) E. Knudsen; (4) Axel Borglum; (5, 8, 9) H. K. Graham. 1 exp., cap. 20 t. Storage cap. 100,000 bu. "Solo" soybean oil meal. Served by CRI&P RR.

NEBRASKA

Crete—WESTERN PRODUCTS CORP. (Head office 321 S. 9th St., Lincoln.)

Fremont—FREMONT CAKE & MEAL CO. (1) John J. Vanier; (2) Harry B. Lilly; (3, 4, 5, 6, 8, 9) Harry E. Wyisel; (7) Del Gaeth. 4 exp., cap. 56 t. Storage cap. 150,000 bu. "Pete Marr" soybean oil meal and pellets. Served by UP, CB&Q, CNW RR.

Lincoln—GOOCH MILLING & ELECTRICAL CO. (5) Floyd Chance. 2 exp., cap. 45 t. Storage cap. 500,000 bu. "Gooch's Best" feeds. Served by CB&Q, UP, C&NW, MP RR.

Omaha—ALLIED MILLS, INC. General office, 3400 Board of Trade Bldg., Chicago 4, Ill. Expeller plant. (7) L. Livengood; (9) W. A. Stohrer. "Wayne" soybean oil meal, mixed feeds and pellets.

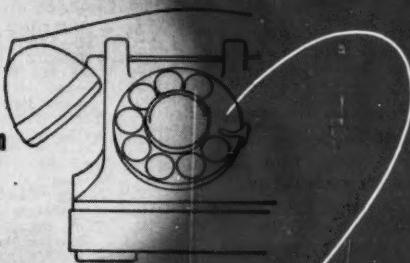
NEW YORK

Buffalo—ARCHER - DANIELS - MID-LAND CO. (See Minneapolis, Minn.)

Buffalo—SPENCER KELLOGG & SONS, INC. 98 Delaware Ave. Plant, 389 Garrison St. (Also plants at Chicago and Decatur, Ill.; Des Moines, Iowa; Bellevue, Ohio; Long Beach, Calif.) (1) Howard Kellogg, Jr.; (2) T. C. Jewett; (5) R. B. Jude; (6) R. L. Beyer; (8) R. E. Peterson. 15 exp. cap. 230 t. Storage cap. 1,000,000 bu. "Spencer Kellogg's" 44% protein soybean oil meal.

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PROCESSORS—(Continued)

Oswego — OSWEGO SOY PRODUCTS CORP., E. Seneca St. (1) Stewart D. Ormsby; (2) R. F. Taylor; (3, 4) L. H. Amdursky; (7, 9) A. F. Horton; (8) J. B. Strong; ass't sec-treas., R. C. Lester. 7 exp., cap. 135 t. Hexane solv., cap. 200 t. Storage cap. 200,000 bu. "Oswego Soy Products Corp." soybean oil meal and feeds. Served by NYC, NY&W, DL&W RR.

Port Richmond, Staten Island 2 — BI-OWN OIL & CHEMICAL CORP. (1, 6) E. G. Brown; (3, 4, 5, 8) T. J. E. Brown; (7) E. J. Stanton; (2, 9) R. A. Pollock. 10 exp., cap. 150 t. Storage cap. 100,000 bu. "Brown 41% O.P." soya meal. Served by Penn, B&O, Erie, NYC, DL&W RR.

NORTH CAROLINA

Charlotte 1 — BUCKEYE COTTON OIL CO. Dist. mgr., R. E. Evans; (7) Wm. R. Johnston.

Clayton — CENTRAL OIL & MILLING CO. (1, 4, 5, 6, 8) Paul Keller; (2) Elisabeth S. Keller; (3) J. E. Nelson; (7) E. H. Brazelle. 2 French screw pr., cap. 40 t. Storage cap. 100,000 bu. "Comco" soybean oil meal. Served by Sou. RR.

Farmville — MORGAN OIL AND REFINING CO., 600 W. Pine St. (1) Irvin Morgan, Jr., (3, 4) W. A. Pollard, Jr.; (7) H. V. Dixon. 3 hydraulic pr., cap. 24 t. Storage cap. 35,000 bu. "Jocko" soybean oil meal. Served by EC, NS RR.

Fayetteville — SOUTHERN COTTON OIL CO. (Dist. office Goldsboro, N. C. Main office, 210 Baronne St., New Orleans 12, La.) (7) J. A. Gault; (9) O. L. Stubbs.

Fremont — FREMONT OIL MILL CO. (1) J. B. Lane; (2) E. R. Lane; (3, 4) Percy Lane Hayes; (7) W. R. Jones. 3 hydraulic

pr., cap. 25 t. Storage cap. 15,000 bu. "Fomco" soybean oil meal and crude soybean oil. Served by AC RR.

Goldsboro — SOUTHERN COTTON OIL CO. Dist. office. (Main office, 210 Baronne St., New Orleans 12, La.) (7) E. W. Jinnett; (9) and dist. mgr., W. V. Westmoreland.

Hertford — SOUTHERN COTTON OIL CO. (Dist. office, Goldsboro, N. C. Main office, 210 Baronne St., New Orleans 12, La.) (7) C. W. Twiddy; (9) C. P. Morris. 8 exp., cap. 50 t. Storage cap. 250,000 bu.

New Bern — NEW BERN OIL & FERTILIZER CO. (1, 4, 5, 6, 8) John S. Wescott; (2) H. G. Swan; (3) P. L. Clodfelter; (7) F. C. Shearin. 6 exp., cap. 35 t. Storage cap. 150,000 bu. "New Bern Oil & Fertilizer Co." soybean oil meal and "N-O-M" feeds. Served by NS RR.

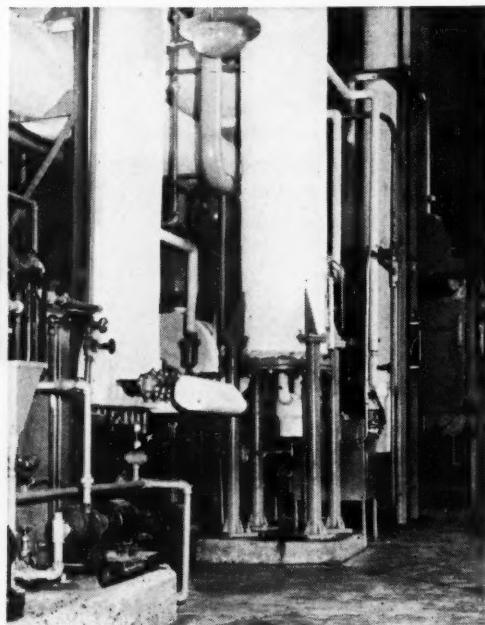
Raleigh — BUCKEYE COTTON OIL CO. Dist. mgr., L. M. Sneed; (7) J. F. Moody.

Rocky Mount — PLANTERS COTTON OIL & FERTILIZER CO., P. O. Box 912. (1, 6) R. D. Gorham; (2) W. M. Daughtridge, J. D. Robbins; (2, 5, 8) W. T. Melvin; (2, 9) G. W. Gorham, Jr.; (3) T. H. Pitt; (4) J. L. Murphy; (7) C. J. Raynor. 12 screw pr., cap. 60 t. Storage cap. 200,000 bu. "Planco" soybean oil meal. Served by ACL RR.

Rocky Mount — SOUTHERN COTTON OIL CO. (Dist. office Goldsboro, N. C. Main office 210 Baronne St., New Orleans 12, La.) (7) W. J. Davis; (9) J. E. Lambert, Jr.

Tarboro — SOUTHERN COTTON OIL CO. (Dist. office Goldsboro, N. C. Main office 210 Baronne St., New Orleans 12, La.) (7) J. W. Rhodes; (9) W. D. Moore.

Weldon — SOUTHERN COTTON OIL CO. (Dist. office, Goldsboro, N. C. Main office 210 Baronne St., New Orleans 12, La.) (7) S. V. Edens; (9) C. E. King.



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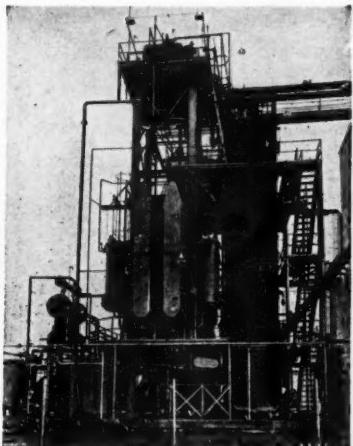
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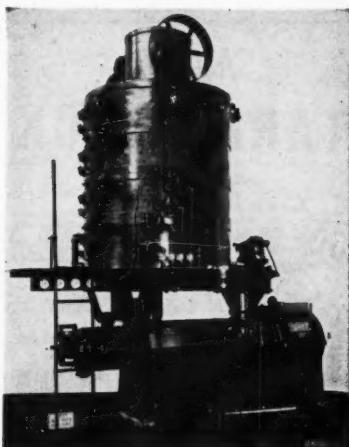
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PROCESSORS—(Continued)

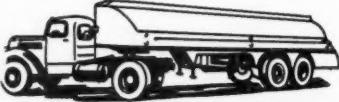
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Wilson — FARMERS COTTON OIL CO., 510 E. Barnes St. (1, 5, 6, 8) T. F. Bridgers; (2) C. P. Harris, Jr.; (3) John L. Day; (4) H. M. Rogers; (7, 9) R. G. Scruggs. 15 hydraulic pr., cap. 75 t. Storage cap. 275,000 bu. 45% soybean oil meal. Soybean operation 3,000-5,000 t. Served by ACL, NS RR.

Wilson — SOUTHERN COTTON OIL CO. (Dist. office Goldsboro, N. C. Main office 210 Baronne St., New Orleans 12, La.) (7) J. A. Arnold; (9) A. H. Wells.

NORTH DAKOTA

Grand Forks — NORTH DAKOTA MILL & ELEVATOR. Gen. mgr., R. M. Stangler; (5) K. Quaintance; (6) L. M. Dorr; (8) K. D. Ford. 2 exp., cap. 50 t. Storage cap. 300,000 bu. "Dakota Maid" soybean oil meal, feeds and pellets. Soybean oil and linseed oil. Served by GN, NP RR.

OHIO

Belleview—SPENCER KELLOGG & SONS, INC. (See Buffalo, N. Y.)

Cincinnati 1 — BUCKEYE COTTON OIL CO. General and dist. offices. (2) and gen. mgr., W. F. Bowld; (2) W. H. Knapp, B. J. Gantt.

Cincinnati 32 — DRACKETT CO. Office 5020 Spring Grove Ave. (Plant, Sharon Ave. and Lockland Rd.) (1) Roger Drackett; (2, 9) R. B. Alspaugh; (3) K. H. Jones; (4) Albert Heekin; (5) R. A. Fledderman; (6) Philip Walters; (7) Don Raineyer; (8) M. Settelmayer. Served by PNR, NYC RR.

Circleville — JOHN W. ESHELMAN & SONS. (Affiliate John W. Eshelman & Sons, Lancaster, Pa.) (1) H. Roy Eshelman; (2) H. J. Eshelman; (3) E. J. Eshelman; (5) E. Howard; (6, 9) H. R. Eshelman, Jr.; (7) L. Rihl. 3 exp. "Eshelman Red Rose" soybean oil meal, feeds and pellets.

Circleville — RALSTON PURINA CO., 901 S. Court. (Head office St. Louis, Mo.) (5) C. L. Clark; (7) Ray T. Friend; (9) A. V. Couch. 6 exp., cap. 145 t. Storage cap. 650,000 bu. "Purina Chows" feeds.

Coshocton — FARMERS SOY PRODUCTS CO., Hickory St. (Subsidiary of Coshocton Farmers Exchange Co.) (2) J. A. Randles; (3, 4, 5, 6) B. Miskimen; (7) Lon Jelley; (8) Dean Marty; other officials, Irwin Porteus, Archie Lapp. 2 exp., cap. 30 t. Storage cap. 40,000 bu. "Exco" soybean oil meal. Served by PRR, W&LE RR.

Delphos — DELPHOS GRAIN & SOYA PRODUCTS CO. (1 and gen. mgr.) Floyd E. Hiegel; (2) William Mericka; (3) F. E. Warren; (5 and chief chemist) Kenneth E. Schultz; (6, 8 and ass't mgr.) Edw. M. Wiecher; (7) Lloyd Hatt, traffic mgr., Fred Tegtmeyer; gen. supt., Walter J. Suever. Anderson solv., cap. 120 t. Storage cap. 750,000 bu. 44% soybean oil meal. Served by NP, Penn RR.

Fostoria — SWIFT & CO. (Home office Chicago, Ill.) (5, 9) H. S. Byrd; (7) F. E. Doll; (8) H. G. Lester. "Swift's" soybean meal.

Lexington — LEXINGTON SOY PRODUCTS CO. (All business transacted through Delphos Grain & Soya Products Co., Delphos, Ohio.) (1, 3, 4) Floyd E. Hiegel; (2) Wm. J. Mericka; (5) Kenneth Schultz; (6, 8) Edw. M. Wiecher; (7) Lloyd Hatt; (9) Chas. Sowers. Solv., cap. 110 t. Storage cap. 540,000 bu. "Red Arrow" soybean oil meal. Served by B&O RR.



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ATLANTA

GEORGIA

PROCESSORS—(Continued)

Marion—McMILLEN FEED MILLS, INC. (of Ohio), wholly owned subsidiary of Central Soya Co., Inc. (Head office Fort Wayne, Ind.) (9) Robert W. Fay, Solv., cap. 250 t. Storage cap. 1,250,000 bu. "Central Star Brand" soybean oil meal, "Centrol" lecithin, "Centrol" soybean oil products, "Master Mix" concentrates and complete feeds.

Ohio City—HOLLAND PIONEER MILLS, INC. (1, 3, 5, 6) G. A. Holland; (2, 4) J. R. Klosterman; (7) Owen Gephart; traffic mgr., R. J. Schnitz. 2 exp., cap. 46 t. Storage cap. 200,000 bu. "Lucky Strike" soybean oil meal, feeds and pellets. Served by Erie, NYC, NP RR.

Painesville — A. E. STALEY MFG. CO. (Main office Decatur, Ill.) (5, 9) T. Longbons; (7) E. P. Kerven; (8) Lyle Wiegand; mgr. soybean div., P. R. Ray, Solv. plant. "Staley's" soybean oil meal.

Rossford — GENERAL MILLS, INC., chemical div. (Office, Minneapolis, Minn.) Grain buyer and office mgr., L. R. Brewster; (7) G. W. Martin. Hexane solv., cap. 250 t. Storage cap. 1,500,000 bu. "General Mills 44%" protein solv. (hexane) extracted soybean oil meal.

Springfield — FARM BUREAU COOPERATIVE ASSN., INC., 442 N. Limestone St. (Office 245 N. High St., Columbus, Ohio.) (1) W. N. Woods; (2) Harold P. Richards; (3) H. N. Wilson; (4) K. N. Prohabco; (5) M. D. Losey; (6, 8) H. H. Biddle; (7) Paul Crow; (9) Walter Snouse. 3 exp., cap. 60 t. Trichlorethylen solv., cap. 25 t. Storage cap. 325,000 bu. "Farm Bureau" soybean oil meal. "Cooperative Mills" feeds.

Toledo 11—TOLEDO SOYBEAN PRODUCTS CO., 215 Pontiac St. (5, 6) J. H. Brown. Storage cap. 100,000 bu. "Superduo" soybean oil meal. Served by Penn. RR.

OKLAHOMA

Durant — DURANT COTTON OIL & PEANUT CORP., 401 Railway St., P. O. Box 70. (1) G. W. Morrow; (2, 5, 6, 8) W. H. Sands; (2, 9) G. W. Morrow, Jr.; (3, 4) J. C. Taylor; (7) J. B. Bruce. 2 exp., cap. 40 t. "Durco" brand soybean oil meal, mixed feeds and pellets. Served by MKT, Frisco, KO&G RR.

Guthrie — GUTHRIE COTTON OIL CO., P. O. Box 446. (1, 5, 6, 9) H. P. Cook; (3) H. Dale Cook; (4, 8) Geo. Elder. 6 exp., cap. 60 t. Storage cap. 160,000 bu. "Red Seal" meal and pellets. Operation 50% soybeans. Served by AT&SF RR.

McAlester — McALESTER OIL MILL CO., P. O. Box 275. (1, 5, 6, 8, 9) P. F. Rosso; (2) S. C. Boswell; (3, 4) Jimmy Hall; (7) H. D. Moore. 3 Fr. exp., cap. 45 t. Storage cap. 100,000 bu. "Red Seal" meal, feeds, pellets. Served by RI, MK&T RR.

Muskogee — MUSKOGEE COTTON OIL MILL, 724 N. Mill St. (Owned by Kimbell Oil Mill, Box 1540, Ft. Worth, Texas.) (5, 8, 9) G. N. Irish; (7) J. E. Earl. 3 Fr. exp., cap. 60 t. Storage cap. 260,000 bu. "Musco" and "Red Seal" soybean oil meal and pellets. Served by MK&T, Frisco, MV, KO&G RR.

Oklahoma City — PRODUCERS COOPERATIVE OIL MILL, 5 E. Frisco. (1) W. H. Kosanke; (7) J. B. Haskew; mgr., A. L. Hazleton; ass't mgr., B. W. Heath. 5 Fr. screw pr., cap. 100 t. Storage cap. 350,000 bu. "Co-op" soybean oil meal and pellets. Served by Frisco RR.

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PROCESSORS—(Continued)

Oklahoma City—SOUTHLAND COTTON OIL CO. (See Paris, Texas.)

Oklahoma City—SOUTHWESTERN COTTON OIL CO., 6 SE. 4th St., Box 1217. (1) R. A. Vose; (2) A. E. King, Jr.; (3, 4, 5, 6, 8, 9) Mrs. G. E. Mace; (7) Jim Wilson, 6 hydraulic pr., cap. 62 t. Storage cap. 400,000 bu. "Little Bull" soybean oil meal and pellets. Operation 50% soybeans. Served by SF, RI, MK&T, Frisco RR.

Tulsa—TULSA COTTON OIL MILL, 419 S. Quincy, Box 2479. (Affiliate Chickasha Cotton Oil Co.) (1) A. L. Durand; (2) C. Britain; (3, 4) J. T. Aust; (5, 9) B. Britain; (6, 8) C. R. Van Valkenburgh; (7) Loyd Garten; cashier, C. E. Jones. 3 exp., cap. 60 t. Storage cap. 100,000 bu. "Chickasha Quality" soybean oil meal and pellets. "Chico" feeds. Served by MK&T, Frisco, SF, Mid. RR.

PENNSYLVANIA

Jersey Shore—PENNA SOY BEAN CO. (1, 3, 5) M. R. Derk; (2) Wm. Shinton; (4) R. M. Wolfe; (7) Wm. Felmy. 1 exp., cap. 15 t. Storage cap. 65,000 bu. "Pennia" soybean oil meal.

Philadelphia—CARGILL, INC. (Head offices 200 Grain Exchange, Minneapolis 15, Minn.) 12 exp. (9) N. H. Richards.

SOUTH CAROLINA

Bennettsville—SOUTHERN COTTON OIL CO. (Dist. office Columbia, S. C. Main office 210 Baronne St., New Orleans 12, La.) (7) J. D. Costner; (9) L. C. Breeden.

Columbia—SOUTHERN COTTON OIL CO., Dist. office. (Main office 210 Baronne St., New Orleans 12, La.) C. FitzSimmons, Jr., dist. mgr.

Kershaw—KERSHAW OIL MILL (1) and gen. mgr., H. L. McPherson; (2) Edna S. Stevens, Fred E. Culvern; (3) John S. Davidson; (4) and asst. gen. mgr., T. V. Hough; (7) Y. L. Copeland. 12 exp., cap. 125 t. Storage cap. 500,000 bu. 45% soybean oil meal. Served by Sou. RR.

Lancaster—LANCASTER COTTON OIL CO. (Affiliate Kershaw Oil Mill, Kershaw, S. C.) (1, 5, 6) H. L. McPherson; (2, 4, 8) W. G. Taylor; (3) A. P. McLure; (7, 9) W. Ben Sowell. 8 exp., cap. 70 t. Storage cap. 150,000 bu. "Palmetto" soybean oil meal. Operation 33% soybeans. Served by L&C, Sou. RR.

Marion—MARION COTTON OIL CO. (Affiliate of Kershaw Oil Mill, Kershaw, S. C.) (1, 5, 6, 8) H. L. McPherson; (3) John S. Davidson; (4) T. V. Hough; (7) Roy Peebles; (9) W. W. Snipes. 10 hydraulic pr. Storage cap. 25,000 bu. Served by ACL RR.

Orangeburg—SOUTHERN COTTON OIL CO. (Dist. office, Columbia, S. C. Main office 210 Baronne St., New Orleans, La.) (7) L. T. Zeigler; (9) C. R. Duncan.

SOUTH DAKOTA

Sioux Falls—WESTERN SOYBEAN MILLS, 701 N. Weber. (Affiliate Sioux Industries, Inc.) (1) Henry Sherman; (2) E. N. Grueskin; (5, 8, 9) Frank S. Burson; (4) Phil Sherman; (6) Irving Sherman; (7) Wallace Abraham. 4 exp., cap. 100 t. Storage cap. 350,000 bu. "Sioux Brand" soybean oil meal, feeds and pellets. Served by CNW, GN RR.

TENNESSEE

Memphis—BUCKEYE COTTON OIL CO., gen. and dist. offices. Western div. mgr., W. R. Flippin. Dist. mgrs., T. F. Horn, R. H. Norris; Binghamton Mill (7) R. L. Herington; Hollywood Mill (7) W. E. Hessler.

Memphis—DESOTO OIL CO., 998 Kansas St. (1) J. F. Waggoner; (2, 6, 8, 9) I. H. Fleming, Jr.; (5) D. K. Beane; (3, 4) H. G. Nelson. 10 hydraulic pr., cap. 124 t. Storage cap. 100,000 bu.

Memphis—PERKINS OIL CO., P. O. Box 152. (Plant West Memphis, Ark.) (1, 2, 4, 5, 6) T. C. Lee; (7) C. H. Caldwell; (8) H. D. Tobias. 4 exp., cap. 105 t. Storage cap. 1,000,000 bu. Served by Frisco, RI, MP RR.

Memphis—SOUTHERN COTTON OIL CO. (Main office 210 Baronne St., New Orleans 12, La.) (7) O. D. Easley; (9) W. K. Martak.

Nashville—NASHVILLE COTTON OIL MILL CORP., 410 Chestnut St. (1, 6, 8) E. Rice, Jr.; (2) S. H. Ridens; (3, 4, 5) J. T. Bratton, Jr.; (7) Earl Evans. 5 exp., cap. 100 t. Storage cap. 300,000 bu. "Famous" mixed feeds and pellets; soybean oil meal. Operation 33% soybeans. Served by NC&StL L&N RR.

Ridgely—PHOENIX OIL MILL
Tiptonville—WEST TENNESSEE SOYA MILL, INC. (1) J. E. Vaughn; (2) L. O. Brayton; (2, 5, 6, 8) Peter Frederickson; (3, 4) W. A. McCutchen; (7) Thos. W. Hutchinson. Solv., cap. 150 t. Storage cap. 900,000 bu. Served by IC RR.

TEXAS

Amarillo—AMARILLO OIL MILL CO., Box 1650, 100 Grand St. (1, 5, 6) H. W. Allen; (2, 8) J. W. Johnson; (2, 9) E. H. Kramer; (3, 4) Lee G. Oates; (7) V. D. Reynolds. 5 hydraulic pr. Storage cap. 165,000 bu. "Ranch House" mixed feeds, pellets, soybean oil meal. Served by CRI&P RR.

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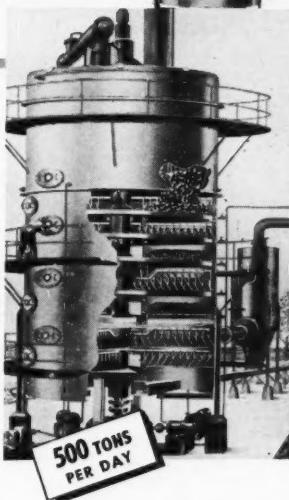
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Steam, M-lbs./hr.	6.0	7.8
Electric Power, kw.	170.0	225.0
Cooling Water Make-Up, gpm	20.0	25.0
Operating labor, men/shift	2	2

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PROCESSORS—(Continued)

Cooper—COOPER COTTON OIL CO. Subsidiary of Chickasha Cotton Oil Co. (1) A. L. Durand; (2) C. M. McKinney; (3, 4) Quentin Miller; (5) C. R. Van Vollenburgh; (7) C. B. Landers; (8, 9) Guy Ray. 4 hydraulic pr., cap. 35 t. Storage cap. 50,000 bu. Operation 33% soybeans. Served by SP RR.

Gatesville—CORYELL COUNTY COTTON OIL CO., Box 208. R. S. Ray, owner; mgr., E. S. Bennett; gen. supt., Robert C. Howell; supt., J. B. Smith; office mgr., J. W. McDonald; mixed feed div. supt., D. M. Mosley. 6 hydraulic pr., cap. 38 t. Storage cap. 100,000 bu. Served by STLSW RR.

Mart—CLEMENT GRAIN CO. OIL MILL Office, Box 233. Office also at Box 1367 Waco, Texas. (5, 6, 8) Madison Clement; (7) Frank Vitasek. 5 hydraulic pr., cap. 50 t. Storage cap. 100,000 bu. "Cen-Tex Polka Dot" mixed feeds and pellets. Served by IGN RR.

Paris—SOUTHLAND COTTON OIL CO. Processing plants at Oklahoma City, Okla.; Shreveport, La.; Jackson, Miss. Chmn. of board, S. W. Wilbor; (1) R. H. Blyth; (2) and gen. mgr., J. R. Gill; technical director, R. R. King. 30 exp., cap. 300 t. Mixed feeds and pellets.

San Marcos—SAN MARCOS OIL MILL, Box 8. (1) A. H. Smith; (2) L. J. Eastwood; (3, 4, 5, 8) H. K. Eastwood; (7) Albert Damerau. 3 hydraulic pr. Storage cap. 200,000 bu. 41% soybean oil meal and pellets. Operation 33% soybeans. Served by IGN, MK&T RR.

Seguin—SEGUIN COTTON OIL CO., 561 W. New Braunfels Ave. (1) D. D. Baker, Jr.; (2) C. A. Krueger; (3, 4, 5, 6) Hugo G. Schmitt; (7) G. D. Wolfenden; (8) A. W. Heidemann. 6 hydraulic pr., cap. 60 t. Also expeller. Storage cap. 100,000 bu. Served by SP RR.

Sherman—GENERAL VEGETABLE OIL CO. Solvent plant.

Sherman—KIMBELL OIL MILL. (1) Kay Kimbell; (2) Dr. Coleman Carter, Jr.; (3, 4) James Thompson; (7) E. V. Vandagriff; (9) F. D. Phillips. 10 hydraulic pr., 1 French pr., cap. 100 t.

Van Alstyne—VAN ALSTYNE COTTON OIL CO. (1, 5, 6) J. Umphress; (2) Creed Taylor; (3) S. M. Cartwright; (7) M. F. Duke. 3 hydraulic pr. Served by T&NO RR.

Wentzler—PLANTERS COTTON OIL CO., Box 317. (1) J. R. Fleming; (2) E. D. Raines; (3, 4, 5, 6, 8) E. T. Fleming; (7, 9) Lowry Johnson. 2 French pr., cap. 40 t. Storage cap. 100,000 bu. "Planters" soybean oil meal and pellets. Served by TP, SF RR.

Wharton—PEOPLES COTTON OIL CO. P. O. Box 1180. Plant 500 Sunset St. (1, 4, 5, 6, 8, 9) H. E. Wilson; (2) Mrs. Hans Goldman; (3) S. R. Harmanson, Jr.; (7) Fred Johnston. 9 hydraulic pr., cap. 100 t. Storage cap. 10,000 bu. 43% meal. Served by SP, SF RR.

VIRGINIA

Norfolk—DAVIS MILLING CO., INC., 1197 Water St. (1) H. L. Fockler; (5) J. F. Gutelius; gen. mgr., H. R. Davis. 3 hydraulic pr., cap. 40 t. Storage cap. 100,000 bu. "DMCO" soybean oil meal. Served by N&W RR.

Portsmouth—ALLIED MILLS, INC. General office, 3400 Board of Trade Bldg., Chicago 4, Ill. Expeller plant. (7) L. C. Campbell; (9) F. H. Shelby. "Wayne" soybean oil meal, mixed feeds and pellets.

Suffolk—SUFFOLK OIL MILL, INC., P. O. Box 736. (1, 5, 6, 8) L. W. Caulk, Jr.; (2) L. B. Caulk; (3, 4) J. F. Caulk; (7) J. H. Jones. Operation 3% soybeans. Served by Vir RR.

WISCONSIN

Janesville—JANESVILLE MILLS, INC., 411 S. Pearl St. (1) Ralph Wells; (2) Geo. Conway; (3, 4) L. A. Markham; ass't secy-treas., mgr., A. Roger Hook. 2 exp., cap. 30 t. Storage cap. 150,000 bu. "J. M. Old Process" soybean and linseed oil meal. Served by C&W, Milw. RR.

Menomonie—NORTHWEST COOPERATIVE MILLS. (Office 635 N. Fairview Ave., St. Paul, Minn.) (1) E. A. Syfstad; (2) Martin Kotiranta; (3, 4) Milo Dahl; (5, 6, 8) A. H. Roffers; (7) Leland Bandelow. 2 exp., cap. 35 t. to 40 t. Storage cap. 160,000 bu. "Co-op" soybean oil meal, mixed feeds and pellets. Served by O&M RR.

CANADA

Fort William—EDIBLE OILS LIMITED. (Plant and offices: P. O. Box 130, Fort William, Ont., Canada. Gen. offices: Grain Exchange Bldg., Winnipeg, Man., Canada.) (1) K. A. Powell; (2) J. Gordon Ross; (3, 4) W. T. Powell; (7, 9) A. J. Lamminen. Naptha solv., cap. 50 t. Storage cap. 50,000 bu. "Edible Brand" soybean oil meal. Served by CN, CP RR.

Hamilton—CANADIAN VEGETABLE OIL PROCESSING LTD., Victoria Ave. and Burlington St. (1, 5, 6, 8, 9) G. S. Boulter; (2) J. Reesor; (3, 4) J. T. Matthews; (7) B. Mooney. 7 exp., cap. 150 t. Storage cap. 500,000 bu. "CVOP" soybean oil meal. Served by CN RR.

Montreal—DOMINION LINSEED OIL CO., LTD. (Gen. offices, 7 Bates Rd. Outremont, Que.) Plants at Baden, Ont.; St. Boniface, Man.; and Montreal, Que. (1 and gen. mgr.) Selwyn Irwin; (2 and asst. gen. mgr.) D. E. Wiley; (2 and sales) J. B. Rollins; (5) W. L. Billings. Served by CN, CP RR.

Toronto—TORONTO ELEVATORS LTD., Queen's Quay. (1) G. C. Leitch; (2) R. C. Berkshaw; (3) F. T. Carnegie; (4) G. W. Hawes; (2, 5) grain div., A. D. Clark; (2) feed div., F. W. Present; (7) C. M. MacLachlan; (9) R. S. Wayman; oil and meal mgr., H. E. Bryant. 8 exp., cap. 150 t. N. Hexane solv., cap. 150 t. Storage cap. 2,000,000 bu. "Double Diamond" soybean oil meal; "Master" mixed feeds and pellets. Served by CN, CP RR.

Toronto—VICTORY MILLS, LTD., 285 Fleet St. E. (Subsidiary Canadian Breweries Ltd.) (1) G. M. Black, Jr.; (2) M. J. Kelly; (2, 9) J. G. Campbell; (3) W. E. Drewry; (4) J. F. C. Andrews; (5, 6) A. R. Gillespie; (7) R. G. Rofftus; (8) J. C. Henderson. 5 exp., cap. 120 t. Naptha solv. 5 pr. screw pr.; French continuous hexane solv. plant; batch-type hexane solv. ext. plant. "Veeline" soybean oil meal. "Indosoy" industrial soy flour. "Soywhite" fat-free soy flour. Served by CN, CP RR.



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FOREIGN PROCESSORS

Includes the firms about which the editors were able to obtain information. Not a complete list.

FRANCE

Feeamp—GRANDE HUILERIE BORDELAISE, route de Rouen. (1) M. Philippart, 14 screw pr., cap. 90 metric t. Naptha solv. plant, cap. 90 metric t. Storage cap. 5,000 metric t. "Croix-Verte" soybean oil meal. "Nutrix" mixed feeds. "Fluidor" lecithin.

Bordeaux—GRANDE HUILERIE BORDELAISE, 8, cours de Gourgue. Plant at 180 quai de Brazza, Bordeaux-Bastide. (1) M. Philippart, 11 screw pr., cap. 150 metric t. Naptha solv. plant, cap. 150 metric t. Storage cap. 10,000 metric t. "Croix-Verte" soybean oil meal. "Nutrix" mixed feeds. "Fluidor" lecithin. Served by SNCF RR.

GERMANY

Dusseldorf/Holthausen—HENKEL & CIE., GbmH, Henkelstrasse 67. Solv. plant not operating now.

Hamburg 1—HANSA-MUHLE A. G., Spitalstr. 12. Plant at Hamburg-Neuhof. Kohlrandstr. 146. (1) H. V. Siebert, E. G. Grimmer; (7) A. Kleinheimpel, 4 screw pr., cap. 240 t. Storage cap. 440,000 bu. Benzine solvent plant, cap. 250 t. Sojaschrot "Vita" soybean oil meal. "Hansacithin Extra-Liquosa Special" lecithin.

Hamburg—HARBURGER OELWERKE BRINCKMAN & MERGELL, 2-6 Seehafenstrasse, Hamburg-Harburg 1. (Owners) M. J. Brinckman, A. Brinckman, C. Mergell, K. V. V. Sydow; (4) W. Plett; (5) W. A. Sostmann; (6) R. Zehe; (8) W. Seiffert; (9) H. Schnakenberg. Chief chemist, Dr. W. Rheinheimer. 62 pr., cap. 800 t. (pressing). Petrol and hexane solvent plant, cap. 900 t. Storage cap. 845,000 bu.

Hamburg 28—STETTINER OELWERK IN HAMBURG A.G. (1) Mr. Dr. C. Tewaag; (2) Mr. Strandberg; (3, 4, 5) Mr. Saltzwedel, Mr. O. Tewaag; (6, 8) Mr. Viergutz; (7, 9) Mr. Habert. 12 screw pr., cap. 120 t. Naptha solv. plant, cap. 250 t. Storage cap. 5,000 t. Sojaschrot "Imperial" soybean oil meal. "Maudschu," "Sedina" refined oil.

Hamburg-Altona—NORDDEUTSCHE OELMUHLENWERKE G. m. b. H., Stresemannstr. 375. Subsidiary of Hugo Stinnes GmbH, Muhlheim/Ruhr. (1) Dr. Samwer, Mr. C. Mohr; (2) Miss A. Holler. 6 screw pr., cap. 300 t. Benzine solv. plant, cap. 300 t. Storage cap. 2,000 t. a 1,000 kg. "Emporia" meal.

Hamburg-Harburg—F. THORL'S VEREINIGTE HARBURGER OELFAKRIKEN AKTIENGESELLSCHAFT, Harburger Schloss-Strasse 20. Board of directors, Dreschers, Hanel, Dr. Schraud, ten Haven; (3) Weingardt; (4) ten Haven; (5) Saalfeld; (6) Freese; (7) Wardenpuhl; (8) Gunther; (9) Hanel. Gasoline ext., cap. 550 t. Storage cap. 20,000 t. "Thori" meal. Cap. 150,000 t. per year. Served by DB RR.

Hellbronn a.N.—CARL HAGENBUCHER & SOHN, Kranenstr. 12. (1) Dr. Ernst Wecker; (5) Dr. P. Wecker; (6, 8) Alfred Stahl; (9) Dr. Fritz Wecker. Hansamuhle gasoline solv. plant, cap. 100 metric t. Storage cap., rented, 3,000 metric t. Soybean oil meal. Served by DB RR, also by barges.

Neuss am Rhein—O. & L. SELS, Dusseldorfstr. 101. (1) Otto Sels. 4 screw pr., cap. 100 t. Leichtbenzin solv. plant, cap. 100 t.

Neuss am Rhein—WALTER RAU NEUSER OELWERKE A. G., Industriestr. 38. Affiliate of Walter Rau Teutoburger Marlinewerke, Hitler T.W. (1) Dr. Hubertus Carlis; (5) Erich Ancker.

Neuss/Rhein—C. THYWISSEN, Olfabrik. (1) Josef Thywissen and Carl Thywissen. 17 exp., cap. 350 t. Naptha solv. cap. 600 t. Storage cap. 350,000 bu.

Wiesbaden—FAUTH AKTIENGESELLSCHAFT, Mainzerstr. 89a. Solv. plant, cap. 150 t. (benzine). Storage cap. 2,000 t. "Sonne" soybean oil meal. "Yokamin" mixed feeds. Manufacture defatted and full fat soy flour.

NORWAY

Oslo—A/S NORSK SOYAMELFABRIK. Fr. Nansenpl. 9. Plant at Larvik. Naptha. Storage cap. 120,000 bu., Solv. plant cap. 100 t. (1) Ludvig Ramm; (7) Arne Flood; (9) Karl Schonning. "Prota" soy.

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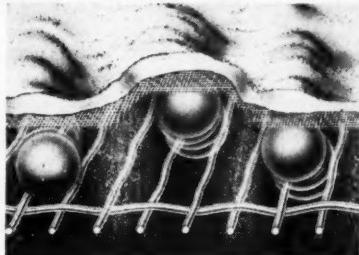
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Macon — PROCTER & GAMBLE MFG. CO.
Savannah — SOUTHERN COTTON OIL CO.

ILLINOIS

Chicago 9 — ARMOUR & CO., Union Stock Yards. Plants at Chicago, Fort Worth, Chattanooga, Jersey City.

Chicago — SOUTHERN COTTON OIL CO.

Chicago 9 — WILSON & CO., INC., 41st and Ashland Ave. Plants at Chicago, Chattanooga, Oklahoma City.

Decatur — A. E. STALEY MFG. CO.

Jacksonville — MRS. TUCKER'S FOODS, INC. Plant under construction.

IOWA

Clinton — PILLSBURY MILLS, INC., Wilson Bldg. Plant also at Centerville.

LOUISIANA

Gretan — SOUTHERN COTTON OIL CO.
Opelousas — OPELOUSAS OIL REFINERY, 909 Railroad Ave. (Affiliate Cotton Products Co., Inc., Opelousas.)

MINNESOTA

Minneapolis — ARCHER - DANIELS - MIDLAND CO., 600 Roanoke Bldg. Plants in Minneapolis, Minn.; Chicago and Decatur, Ill.; Fredonia, Kans.; Buffalo, N. Y.; Edgewater, N. J.; Portland, Ore.; Kenedy, Texas.

Minneapolis 1 — GENERAL MILLS, INC., chemical div., 700 General Mills Bldg. Plant, Belmont, Iowa.

MISSOURI

St. Louis 7 — BLANTON CO., 3400 N. Wharf.

NEW JERSEY

Bayonne — SOUTHERN COTTON OIL CO.
Newark — COLONIAL PACKING CORP., 174 Blanchard St. Other plants, Italian Cook Oil Corp. and Pem Sales Co., Inc.

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Buffalo — SPENCER KELLOGG & SONS, INC., 98 Delaware Ave. Plants at Edgewater, N. J.; Buffalo, N. Y.; Bellevue, Ohio; Decatur and Chicago, Ill.; Long Beach, Calif.; Des Moines, Iowa.

New York 17 — BEST FOODS, INC., 1 E. 43rd St. Plants at Bayonne, N. J.; Chicago, Ill.; Dallas, Texas; San Francisco, Calif.

New York 10 — E. F. DREW & CO., INC., 15 E. 26th St. Plant, Boonton, N. J.

New York 22 — LEVER BROS. CO., 390

Park Ave. Refining plants at River Road, Edgewater, N. J.; Indianapolis Blvd., Hammond, Ind.; 6300 E. Sheila St., Los Angeles 22, Calif.

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OHIO

Cleveland 14 — GLIDDEN CO., 1396 Union Commerce Bldg. Oil refining operations conducted through Durkee Famous Foods and Vegetable Oil Products division with plants at Elmhurst, L. I., N. Y.; Louisville, Ky.; Chicago, Ill.; Berkeley and Buena Park, Calif.; Cleveland, Ohio.

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Memphis — SOUTHERN COTTON OIL CO.

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El Paso — WESTERN COTTON OIL CO., refinery div., P.O. Box 1491.

Sherman — MRS. TUCKER'S FOODS, INC., 1201 E. Pecan.

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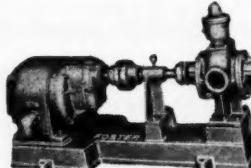
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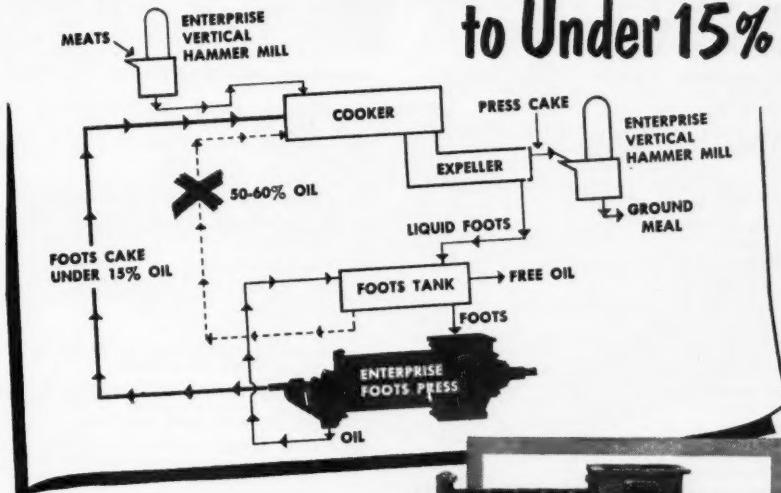
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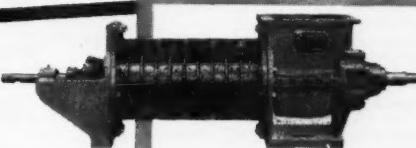
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Olmsted Falls, Ohio—NATURAL FOODS INSTITUTE.

Philadelphia, Pa.—BRILLIANT FOODS, 254 E. Girard Ave.

Madison College, Tenn.—MADISON FOODS.

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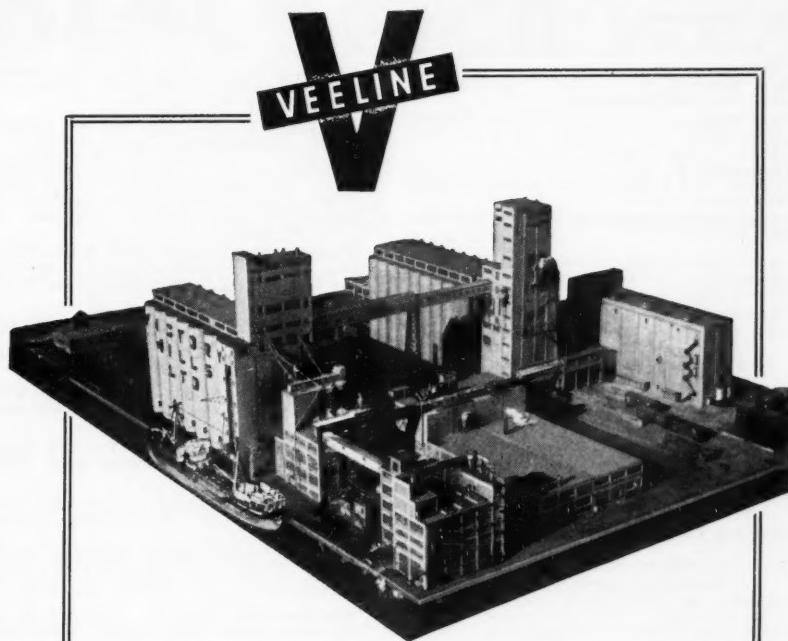
Chicago 39, Ill.—GLIDDEN CO., soya products div., 1825 N. Laramie Ave.

Chicago 11, Ill.—ROSS & ROWE, INC., Wrigley Bldg. Also 50 Broadway, New York 4, N. Y.

Decatur, Ill.—A. E. STALEY MFG. CO. Fort Wayne, Ind. — CENTRAL SOYA CO., INC.

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Chicago 9, Ill.—ARMOUR & CO., Union Stock Yards. Shortening and salad oil.

Chicago, Ill.—SOUTHERN COTTON OIL CO. Shortening.

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7. Mich. Shedd's "Old Style" dressing. Shedd's "Lady Betty" mayonnaise and salad products.

St. Louis 7, Mo.—BLANTON CO., 3400 N. Wharf. Shortening, salad and cooking oils. Hydrogenated fats and oil.

Bayonne, N. J.—SOUTHERN COTTON OIL CO. Shortening.

Newark, N. J.—COLONIAL PACKING CORP., 174 Blanchard St. Other plants Italian Cook Oil Corp. and Pem Sales Co., Inc. Mayonnaise, salad dressing and French dressing.

Buffalo, N. Y.—SPENCER KELLOGG & SONS, INC., 98 Delaware Ave. "Spensoy" salad oil, "Kellko," "Kel-Exo," "Kel-Kake" and "Kel-Fry."

New York 17, N. Y.—BEST FOODS, INC., 1 E. 43rd St. Plants at Bayonne, N. J.; Chicago, Ill.; Dallas, Tex.; and San Francisco, Calif. "VEO" shortening.

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Columbus 34, Ohio—CAPITAL CITY PRODUCTS CO., 525 W. 1st Ave. Shortening.

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Chattanooga, Tenn.—WILSON & CO., INC. Shortening, cooking and salad oils.

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Memphis, Tenn.—HUMKO CO., 1702 N. Thomas St. Hydrogenated vegetable shortening, salad oil.

Memphis, Tenn.—SOUTHERN COTTON OIL CO. Shortening.

Sherman, Texas—MRS. TUCKER'S FOODS, INC. Shortening and salad oil.

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W. Toronto 9, Ont., Canada—CANADA PACKERS LTD. Lard compound and salad oil.

Toronto, Ont., Canada—LEVER BROS. LTD., 299 Eastern Ave. Shortening.

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Chicago 12, Ill.—CUSTOM FOOD PRODUCTS, INC., 701-709 N. Western Ave. Sausage and loaf binders for sausage trade. Hamburger and loaf seasonings and binders for institutional trade.

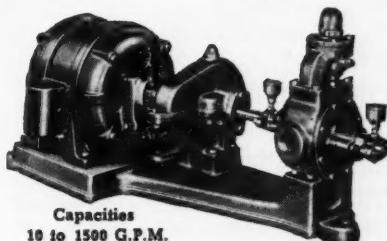
Chicago 39, Ill.—GLIDDEN CO., soya products div., 1828 N. Laramie Ave.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. Binders for sausage making and for canned dog foods—"Special X" low-fat soy flour, "Meatone" low-fat soy grits, "Kel-Sovsoy" defatted soy flour and grits.

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Philadelphia, Pa.—**BRILLIANT FOODS**, 254 E. Girard Ave.

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Syracuse, N. Y.—**VEGETABLE PRODUCTS CO.**, 510 S. Clinton St.

Cincinnati, Ohio—**PROCTER & GAMBLE CO.**, Gwynne Bldg. Edible oils.

Columbus 34, Ohio—**CAPITAL CITY PRODUCTS CO.**, 525 W. 1st Ave. Edible oil.

Philadelphia, Pa.—**C. F. SIMONIN'S SONS**, Tioga and Belgrade Sts. Edible oil.

SOYBEANS FOR COOKING AND SPROUTING

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Muskegon, Mich.—**LO HI FOOD SCHOOL**, 618 Adams Ave. "New Food."

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Arlington, Calif.—**LOMA LINDA FOOD CO.** Packers and distributors of soy flour.

Chicago 10, Ill.—**FEARN SOYA FOODS**, 355 W. Ontario St. "Dr. Fearn's" unbleached wheat flour and soya.

Chicago 39, Ill.—**GLIDDEN CO.**, soya products division, 1825 N. Laramie Ave. Full-fat, low-fat and defatted soy flours, flakes and grits.

Chicago, Ill.—**GRIFFITH LABORATORIES**, 1415 W. 37th St. Flour. Grits.

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Decatur, Ill.—**A. E. STALEY MFG. CO.** Extracted, hi-fat and lo-fat flour. Grits. Flakes.

Galesburg, Ill.—**GUNTHER PRODUCTS INC.**, 600 E. Main St. Vegetable proteins.

Des Moines 9, Iowa—**SOY PRODUCTS CO.**, 7 7th St. Soy flour.

Hawatha, Kans.—**THOMSON SOY MILL**.

Battle Creek, Mich.—**BATTLE CREEK FOOD CO.** Soya flakes with gluten, soy flour, 2-lb. and 5-lb. bags.

Blooming Prairie, Minn.—**FARMERS CO-OP ELEVATOR ASSN.**, soybean processing div. "Prairie" 44% toasted soy flakes.

Minneapolis 2, Minn.—**ARCHER-DANIELS-MIDLAND CO.**, 600 Roanoke Bldg. Soy flour, soy grits, "ADM" soybean brew flakes.

Syracuse, N. Y.—**VEGETABLE PRODUCTS CO.**, 510 S. Clinton St. "ViVi-Ta," soy flour, hi-fat; soy flakes.

Brockville, Ontario, Canada—**MacDOWELL BROS.** Plant also at Ogdensburg, N. Y. Soybean flour specially processed for diabetics.

Toronto, Canada—**VICTORY MILLS, LTD.**, 285 Fleet St. E. "Indosoy," industrial soy flour; "Soywhite," fat-free flour.

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Chicago 10, Ill.—**FEARN SOYA FOODS**, 355 W. Ontario St. "Dr. Fearn's" Soy-O wholewheat pancake flour.

Red Wing, Minn.—**SPECIAL FOODS CO.** Bread mix. Concentrates for bakers.

Red Wing, Minn.—**STURDIWHEAT CO.**, Citizens Fund Bldg. Plant, 970 Raymond Ave., St. Paul. "Sturdimix" general purpose baking mix. "V-932" special protein bread mix.

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Chicago, Ill. — CHICAGO DIETETIC SUPPLY HOUSE, 1750 W. Van Buren St. Canned soy milk.

Chicago 10, Ill. — FEARN SOYA FOODS, 355 W. Ontario St. "Dr. Fearn's" pure soybean milk powder.

Battle Creek, Mich. — BATTLE CREEK FOOD CO. "Soy Acidophilus."

Muskegon, Mich. — LO HI FOOD SCHOOL, 618 Adams Ave. "Lo Hi" milk.

Syracuse, N. Y. — VEGETABLE PRODUCTS CO., 510 S. Clinton St.

Mt. Vernon, Ohio — LOMA LINDA FOOD CO. Powdered soy milk.

Olmsted Falls, Ohio — NATURAL FOODS INSTITUTE. Dried and liquid.

Philadelphia, Pa. — BRILLIANT FOODS, 254 E. Girard Ave. Malted milk.

Madison College, Tenn. — MADISON FOODS.

SOY SAUCE

Glendale, Ariz. — SHOWA SHOYU BREWING CORP., P. O. Box 246.

Arlington, Calif. — LOMA LINDA FOOD CO.

Los Angeles, Calif. — ORIENTAL FOODS, INC., 4100 S. Broadway.

Chicago, Ill. — GREAT CHINA FOOD PRODUCTS CO., 2520-58 S. State St.

Chicago, Ill. — JOHN SEXTON & CO., Sexton Square. Other plants at Long Island City, Boston, Philadelphia, Pittsburgh, Detroit, Atlanta, Dallas, San Francisco. Chop suey, sirloin club, mushroom and smoke house sauces.

Columbus City, Ind. — ORIENTAL SHOW-YOU CO., INC.

Archbold, Ohio — LACHOY FOOD PRODUCTS, div. Beatrice Foods Co.

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Columbus City, Ind. — ORIENTAL SHOW-YOU CO., INC. Mung bean sprouts.

TOPPINGS

Buffalo, N. Y. — RICH PRODUCTS CORP. "Whip Topping."

VITAMINS

Azusa, Calif. — W.H.Y. & KEVO PRODUCTS CO., LTD. (Subsidiary of G. M. Bartlett Co.) "Kevo-ets" soy food products.

WHIPPING AGENTS

Chicago 39, Ill. — GLIDDEN CO., soy products div., 1825 N. Laramie Ave.

Chicago, Ill. — JOHN SEXTON & CO., Sexton Square. Other plants at Long Island City, Boston, Philadelphia, Pittsburgh, Detroit, Atlanta, Dallas, San Francisco. "Whip" powder.

Galesburg, Ill. — GUNTHER PRODUCTS INC., 600 E. Main St. Manufacture vegetable proteins and derivatives.

Minneapolis 2, Minn. — ARCHER-DANIELS-MIDLAND CO., soya products div., 600 Roanoke Bldg. "Nutriwhip."

New Brunswick, N. J. — W. A. CLEARY CORP. Also Chicago, Ill.; Belleville, Ont.

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ALABAMA

Sunnyland Refining Co., 3330 10th Ave., N. Birmingham.

ARKANSAS

Osceola Foods, Inc., P. O. Box 232, Osceola.

CALIFORNIA

Best Foods, Inc., 1890 Bryant St., San Francisco.

Cudahy Packing Co., 803 Macy St., Los Angeles 54.

Glidden Co., d.b.a Durkee Famous Foods, 2900 5th St., Berkeley 2.

Kraft Foods Co., 5657 E. Slauson Ave., Los Angeles.

Standard Brands, Inc., 921 98th Ave., Oakland.

C. A. Swanson & Sons, 1375 Sansome St., San Francisco.

Swift & Co., 3750 Jewel Ave., Los Angeles.

Vegetable Oil Products Co., Inc., 401 Canal Ave., Wilmington.

Wilson & Co., Inc., 960 N. Vignes St., Los Angeles.

GEORGIA

Glidden Co., d.b.a. Durkee Famous Foods, New Mead Highway and San Carlos Dr., Macon.

Kraft Foods Co., 890 Memorial Dr. S.E., Atlanta.

Mar-Gold Corp., 1495 Pryor St. S.W., Atlanta.

Southeastern Margarine Co., Inc., 226 S. Madison St., Thomasville.

Southern Harvest, Inc., 334 Smith Ave., Thomasville.

Standard Brands, Inc., margarine div., 1630 Huber St. N.W., Atlanta.

Swift & Company, 566 Wells St. S.W., Atlanta.

ILLINOIS

Armour & Co., Union Stock Yards, Chicago 9.

Best Foods, Inc., 2816 S. Kilbourn Ave., Chicago.

Cudahy Packing Co., 91st and Baltimore So., Chicago.

Friedman Mfg. Co., Union Stock Yards, Chicago 9.

Glidden Co., d.b.a. Durkee Famous Foods, 3702 S. Iron St., Chicago.

Kraft Foods Co., 500 Peshtigo Ct., Chicago 90.

Shedd-Bartush Foods of Illinois, Inc., 51 N. State St., Elgin.

Swift & Co., Union Stock Yards, Chicago 9.

Wilson & Co. Inc., 4100 S. Ashland Ave., Chicago 9.

INDIANA

Lever Bros., Jelke Good Luck Products, Hammond.

Standard Brands, Inc., 1102 Roosevelt Ave., Indianapolis.

LOUISIANA

Blue Plate Foods, Inc., 1315 S. Jefferson Davis Parkway, New Orleans.

MARYLAND

J. H. Filbert, Inc., 3701 Harkins Rd., Baltimore 29.

MICHIGAN

Shedd-Bartush Foods, Inc., 14401 Dexter Blvd., Detroit 6.

MISSOURI

Blanton Co., 3400 N. Wharf, St. Louis 7. Carthage Creamery Co., Carthage. Kent Products, Inc., 612 Broadway, Kansas City 6.

NEBRASKA

C. A. Swanson & Sons, 214 N. 10th St., Omaha.

NEW JERSEY

Armstrong Packing Co., div. of Swift & Co., 154 9th St., Jersey City.

Best Foods, Inc., 99 Ave. A, Bayonne. E. F. Drew & Co., Inc., 416 Division St., Boonton.

Kraft Foods Co., 31 Evans Terminal, Hillside.

Lever Bros., Jelke Good Luck Products, Edgewater.

Swift & Co., 154 9th St., Jersey City.

OHIO

Capital City Products Co., 1st and Perry Sts., Columbus.

Churngold Corp., 50 Walnut St., Cincinnati.

Glidden Co., d.b.a. Durkee Famous Foods, St. Mary's and Ontario Sts., Norwalk.

Miami Margarine Co., 107 E. Pearl St., Cincinnati.

OKLAHOMA

Wilson & Co., Inc., P. O. Box 1905, Oklahoma City.

SOUTH CAROLINA

Shedd-Bartush Foods, Inc., New Buncombe Rd., Greenville.

TENNESSEE

Armour & Co., 4608 Kirkland Ave., Chattanooga.

Cudahy Packing Co., 2800 Chelsea Ave., Memphis.

TEXAS

Armour Creameries, Inc., Collier & Son, Inc., joint ventures, d.b.a. Collier Industries, 416-500 E. 9th St., Fort Worth.

Best Foods, Inc., 701 Bellevue St., Dallas.

Kraft Foods Co., Belt Line Rd., Garland.

Salem Commodities, Inc., d.b.a. Coldstream Products Co., 1406 W. Washington St., Denison.

Shedd-Bartush Foods, Inc., 1729 Irving Blvd., Dallas.

Standard Brands, Inc., 916 S. Harwood St., Dallas.

Swift & Co., Stock Yards Stn., Fort Worth.

Mrs. Tucker's Foods, Inc., 1201 E. Pecan St., Sherman.

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Chicago 39, Ill.—GLIDDEN CO., soya products div., 1825 N. Laramie Ave. "Alpha" protein for linoleum and textile coverings, leather top-finishes, rubber latex dispersion and tire cord sizing; printing and drawing inks and sealing compounds. "Prosein" and "Prosoy F-SG" for linoleum and textile coverings, emulsions and plaster. "Mulsoya," water soluble derivative of isolated soybean proteins for textile size.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Kekkote" pulverized commercial soy protein for protective coatings, linoleum, water emulsion paint finishes. Leather dressing.

Louisville, Ky.—BUCKEYE COTTON OIL CO. Isolated protein for use in beater sizing, leather dressing.

Cincinnati, Ohio—DRACKETT CO., 5020 Spring Grove Ave. Isolated protein for use in beater sizing, leather dressing.

Columbus 16, Ohio—COLUMBUS COAT-ED FABRICS CORP., 7th and Grant Aves. Oil cloth, plastic sheeting, wall coverings, upholstery materials and shade cloth.

CORE OIL

Philadelphia, Pa.—E. F. HOUGHTON & CO.

FATTY ACIDS AND CHEMICALS FROM FATS

Chicago 9, Ill.—ARMOUR & CO., chemical div., 1355 W. 31st St.

Chicago 39, Ill.—GLIDDEN CO., soya products div., 1825 N. Laramie Ave.

Minneapolis, Minn.—GENERAL MILLS, INC., chemical div., 700 General Mills Bldg.

New York 10, N. Y.—E. F. DREW & CO., INC., 15 E. 26th St.

FIRE-FIGHTING FOAM

Chicago 39, Ill.—GLIDDEN CO., soya products div., 1825 N. Laramie Ave.

West Chester, Pa.—NATIONAL FOAM SYSTEM, INC. "Aer-O-Foam."

GLUES, PLYWOOD ADHESIVES

Chicago 39, Ill.—GLIDDEN CO., soya products div., 1825 N. Laramie Ave. Adhesive meal (soybean) for use in manufacture of plywood adhesives.

Chicago 16, Ill.—PAISLEY PRODUCTS, INC., 1770 Canalport Ave. Glues, adhesives.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Kekkote" pulverized commercial soy protein and "Soytex" adhesive soy flour. Defatted soy flakes.

Springfield, Mass.—MONSANTO CHEMICAL CO., plastics div. "Lauxein" soybean glues.

Minneapolis, Minn.—GENERAL MILLS, INC., chemical div., 700 General Mills Bldg. "Lotex" and "Hitex," specialty soybean flakes for use in the manufacture of plywood adhesives.

Seattle 4, Wash.—AMERICAN MARIETTA CO., 3400 13th Ave. S.W. Adhesive for plywood, woodworking and allied industries.

INSECTICIDES

Chicago 39, Ill.—GLIDDEN CO., soya products div., 1825 N. Laramie Ave. "Spray-soy," spreader and sticker for various sprays, and emulsifier for oil emulsion sprays.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Special X" low-fat soy flour, defatted soy flour.

LUBRICATING GREASES

Chicago 80, Ill.—STANDARD OIL CO. (INDIANA), 910 S. Michigan Ave.

PAINTS AND VARNISHES

Wilmington, Del.—E. I. du PONT de NEMOURS & CO., INC. Soybean oil in paints, alkyd resin varnishes.

Chicago 39, Ill.—GLIDDEN CO., soya products div., 1825 N. Laramie Ave. "Alpha" protein, "Prosein" and "Prosoy F-SG" for water-thinned type paints. Soybean split fatty acids for use in paints and varnishes.

Chicago 11, Ill.—ILLINOIS FARM SUPPLY CO., 100 E. Ohio St. Soy oil paints and varnishes.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Kekkote" pulverized commercial soy protein. "Drisoy" drying soybean oil. Complete line of refined industrial soybean oils.

Peoria, Ill.—SICCA SOYA PAINT CO., INC., 3400 S. Washington St. "Sta-Par," "Plastic Plaster," soy oil paints.

Louisville, Ky.—BUCKEYE COTTON OIL CO. Isolated protein for water paints.

Louisville 8, Ky.—JONES-DABNEY CO., 1481 S. 11th St. Div. of Devoe & Reynolds Co. Varnishes.

North Kansas City 16, Mo.—NATL PAINTING CORP., 2012 Burlington. Manufacturers of 100% soybean oil industrial finishes, soybean oil base paints, texture finishes.

St. Louis 7, Mo.—P. D. GEORGE CO., 5200 N. 2nd St. Exterior building paints, industrial paints, interior paints, varnishes.

New York 6, N. Y.—SUPERIOR MATERIALS, INC., 120 Liberty Street. Soyates used as driers in paints and inks.

Cincinnati, Ohio—DRACKETT CO., 5020 Spring Grove Ave. Isolated protein for use in water paints including latex and resin emulsion types.

Cleveland, Ohio—SHERWIN WILLIAMS & CO. Paints, enamels. Paint grinding oils. Alkyd resin varnishes.

Pittsburgh, Pa.—PITTSBURGH PLATE GLASS CO., 2000 Grant Bldg. Paints, varnishes and lacquers.

Memphis 1, Tenn.—DESO TO PAINT & VARNISH CO. Enamels and industrial finishes.

PAPER SIZINGS, WALL PAPER AND WALLBOARD COATINGS

Aurora, Ill.—GLENN DAVIDSON, P. O. Box 510. "Soyize" (technical soy flour) and "Soyein" (isolated soy protein) for use as industrial adhesives.

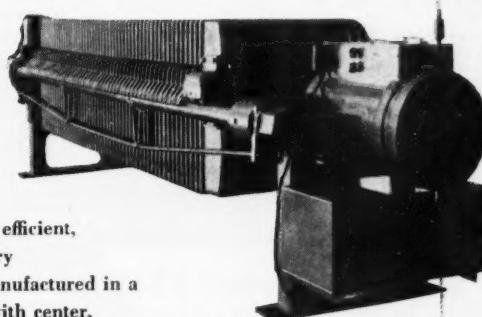
Chicago 39, Ill.—GLIDDEN CO., soya products div., 1825 N. Laramie Ave. "Alpha" protein, "Prosein" and "Prosoy F-SG" for paper sizing and coating operations, and wallboard coatings.

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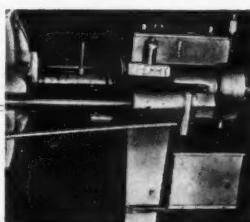
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Hiawatha, Kans. — **THOMSON SOYA MILL**. Industrial proteins.

Louisville, Ky. — **BUCKEYE COTTON OIL CO.** Isolated protein for use in paper coatings.

Springfield, Mass. — **MONSANTO CHEMICAL CO.**, plastics div. "Lauxize" paper sizing.

Minneapolis, Minn. — **GENERAL MILLS, INC.**, chemical div., 700 General Mills Bldg. Polyamide resin for coating paper in manufacture of containers.

Cincinnati, Ohio—**DRACKETT CO.**, 5020 Spring Grove Ave. Isolated protein for use in paper coatings.

PLASTICS

Newark 5, N. J. — **REILLY TAR & CHEMICAL CORP.**, 191 Doremus Ave. Phenolic plastics extended with soybean oil meal.

PROTEIN FIBERS

Chicago 39, Ill. — **GLIDDEN CO.**, soya products div., 1825 N. Laramie Ave. "Alpha" protein, used in synthetic wool fibers.

RESINS

Chicago 39, Ill. — **GLIDDEN CO.**, soya

products div., 1825 N. Laramie Ave. "Prosoy G," extender for resin adhesives.

Chicago 16, Ill. — **PAISLEY PRODUCTS, INC.**, 1770 Canalport Ave.

Louisville 8, Ky. — **JONES-DABNEY CO., INC.**, 11th St. Div. of Devoe & Raynolds Co. Alkyd resins.

Detroit 20, Mich. — **REICHHOLD CHEMICALS, INC.** Alkyd resins.

Minneapolis, Minn. — **GENERAL MILLS, INC.**, chemical div., 700 General Mills Bldg. Polyamide resin for coating papers and delicately machined metal parts.

Cleveland, Ohio—**SHERWIN WILLIAMS & CO.**

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Chicago 39, Ill. — **GLIDDEN CO.**, soya products div., 1825 N. Laramie Ave. Soybean split fatty acids for use in soaps.

Newark, N. J. — **COLONIAL PACKING CORP.**, 174 Blanchard St. Other plants Italian Cook Oil Corp. and Pem Sales Co., Inc. Soapstock.

New York 22, N. Y. — **LEVER BROS. CO.**, 390 Park Ave.

Cincinnati, Ohio—**PROCTER & GAMBLE CO.**, Gwynne Bldg.

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San Francisco, Calif.—CURTIS & TOMP-KINS LTD.,* 236 Front St. Samplers.

Atlanta, Ga.—LAW & CO.,* P. O. Box 1558.

Savannah, Ga.—SHUEY & CO., 115 E. Bay St.

Waterloo, Iowa—IOWA TESTING LABORATORIES, 231 Vaughan St. Analyses of soybeans, soybean oil meal, soybean oil.

New Orleans 12, La.—EDWARD G. WILLIAMS LABORATORIES,* 933 Poydras St.

Kansas City 8, Mo.—SOUTHWESTERN LABORATORIES,* Board of Trade Bldg.

South Kearney, N. J.—LOUIS STERN SONS, INC., 4th St. and Hackensack Ave. Official samplers and weighers.

New York 4, N. Y.—M. F. LAURO, chief chemist, New York Produce Exch., 2 Broadway.

Oklahoma City, Okla.—SOUTHWELL LABORATORY,* P. O. Box 1006.

Columbia, S. C.—HAHN LABORATORIES,* P. O. Box 1163, 1305 Laurel St.

Memphis 1, Tenn.—BARRON-AGEE LABORATORIES, INC.,* 123 S. Front St.

Memphis, Tenn.—WOODSON-TENENT LABORATORIES.* Also offices at Little Rock and Blytheville, Ark.; Cairo and Decatur, Ill.; Des Moines, Iowa; Clarksdale, Miss.

Austin, Tex.—ACOCK LABORATORIES,* P. O. Box 1148.

Dallas 1, Tex.—POPE TESTING LABORATORIES,* P. O. Box 903.

Houston, Tex.—HOUSTON LABORATORIES,* P. O. Box 132, 311 Chenevert St.

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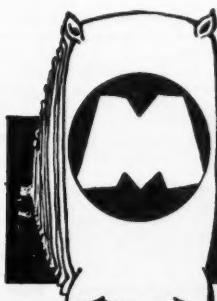
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New Orleans 7, La.—MENTE & CO., INC., Box 690. Offices in Houston, Savannah, New York, and Chicago. New and used burlap and cotton bags. Burlap, bagging, twine.

Minneapolis, Minn. — AMERICAN BAG CO., 112 3rd Ave. Also operate Nebraska Bag Co., Omaha. Cotton and burlap bags; bag printing.

Minneapolis 14, Minn. — SAM MILLER BAG CO., 861-871 E. Hennepin. Manufacturer new burlap and cotton bags; recondition used burlap and cotton bags for soybean oil meal.

St. Paul 4, Minn. — BEEDLE-WHITON CO., 470 Cleveland Ave. N. Manufacture burlap, cotton and paper bags for soybeans and soybean oil meal; recondition used cotton and burlap bags.

Kansas City 7, Mo.—CENTRAL BAG CO., 1323-31 W. 13th St. New and secondhand bags.

Kansas City, Mo.—PERCY KENT BAG CO., Offices in Buffalo, New York, Minneapolis, Chicago, Oklahoma City. Cotton and burlap bags.

St. Louis 2, Mo.—BEMIS BRO. BAG CO., 408 Pine St., Box 68. Offices in principal cities. Cotton, burlap, waterproof paper-lined textile and multi-wall paper shipping sacks, cellophane bags.

St. Louis 6, Mo.—MISSOURI BAG CO., 1206-1214 N. 1st St. New burlap and cotton bags. Processors and handlers of used bags.

St. Louis 6, Mo.—REPUBLIC BAG CO., 1540 Blair Ave. Burlap and cotton bag processors.

St. Louis 3, Mo.—UNITED BAGS, INC., 1510 Clark Ave., P. O. Box 297. New and used cotton and burlap bags for soybeans, soybean oil meal and other products.

Omaha 8, Nebr.—NEBRASKA BAG CO., 715-17 S. 9th St. Affiliate of American Bag Co., Minneapolis, Minn. New and used burlap, cotton and paper bags. All types bag supplies.

Brocklyn, N. Y.—BURRAS BAG CO., INC., 135 Plymouth St. Burlap and cotton bags, bagging and burlap.

New York 17, N. Y.—INTERNATIONAL PAPER CO., bagpack div., 220 E. 42nd St. Plants at Camden, Ark., and Bastrop, La. Multiwall paper bags.

New York 17, N. Y.—ST. REGIS SALES CORP. Head office, 230 Park Ave. Offices in principal cities.

New York 7, N. Y.—UNION BAG & PAPER CORP., 233 Broadway. Manufacture "Multiwall" paper bags for packaging soybean oil meal and other feeds.

Jaite, Ohio—JAITE CO. "Multi-wall" paper bags.

Memphis 12, Tenn.—CROWN BAG CO., 2686 Harvard St. Cotton and burlap bags.

Memphis 2, Tenn.—LANGSTON BAG CO., 136 E. Webster St. Manufacturers of new and used cotton and burlap bags.

Nashville 1, Tenn. — WERTHIAN BAG CORP., 1400 8th Ave. N. Also plant at 303 Thalia St., New Orleans, La. New and used burlap and cotton textile bags for sacking soybeans and soybean oil meal.

BAG MANUFACTURERS (Continued)

Houston 1, Tex.—LONE STAR BAG & BAGGING CO., P. O. Box 276. New and secondhand burlap and cotton bags.

Richmond, Va.—VIRGINIA-CAROLINA CHEMICAL CORP., 401 E. Main St. Plant at Dubuque, Iowa. "V-C" burlap, cotton and paper bags.

Milwaukee 2, Wis.—FREDMAN BAG CO., 330 E. Clybourn St. Cotton and burlap bags.

BAG REPAIRING

Chicago 9, Ill.—VAL-A CO., 700 W. Root St. "Tehr-Greeze," fabric cement.

Houston 1, Tex.—LONE STAR BAG & BAGGING CO., P. O. Box 276.

BELTING

Denver 17, Colo.—GATES RUBBER CO., 999 S. Broadway. V-belts.

Chicago 6, Ill.—C. R. DANIELS, INC., belting div., 549 W. Randolph St. Plants at Baltimore and Daniels, Md.; Dallas, Tex. Canvas stitched belting for elevating and conveying.

Chicago 23, Ill.—IMPERIAL BELTING CO., 1750-1800 S. Kilbourn Ave. Manufacture canvas stitched conveyor and elevator belting.

Chicago 9, Ill.—LINK-BELT CO. Also at Indianapolis, Philadelphia, Atlanta, Dallas, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Conveyor belting.

Evanston, Ill.—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

Peoria, Ill.—PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Transmission, elevating and conveyor belting. V-belts and sheaves.

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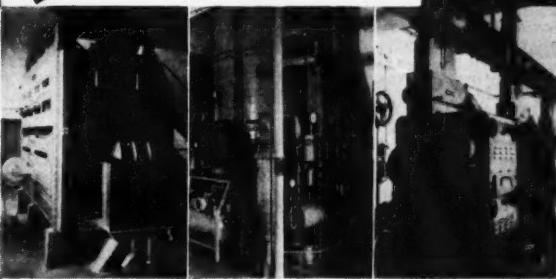
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Cedar Rapids, Iowa.—J. C. KINTZ CO., 719 5th St. S.E.

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Columbus 16, Ohio.—JEFFREY MFG. CO., 799 N. 4th St. Elevator buckets.

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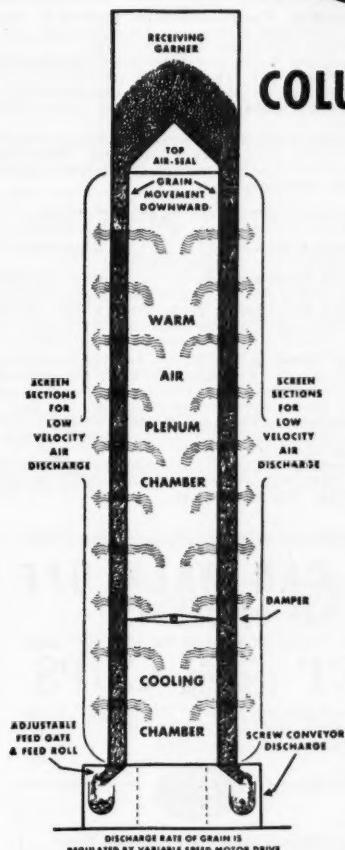
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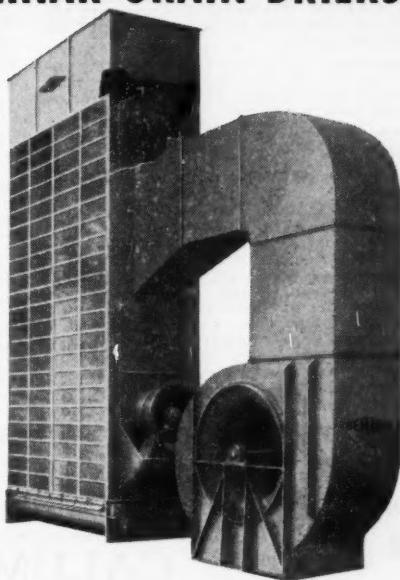
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South Kearney, N. J.—LOUIS STERN SONS, INC., 4th St. and Hackensack Ave. Office 2 Broadway, New York City. Drum soybean oil for export and delivery to piuers. Bulk oil for export shipments.

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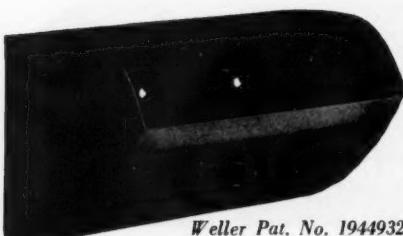
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Skokie, Ill.—WM. W. MEYER & SONS INC., 8254 Elmwood Ave. Blowers, fans, exhausters and vacuum cleaners.

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Sidney, Ohio—SHELBY MFG. CO., 219 E. Court St. Carloader blowers.

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Atlanta, Ga.—TENNESSEE CORP. Trace elements.

Chicago 5, Ill.—THOMSON PHOSPHATE DEPT., International Minerals & Chemical Corp., 407 S. Dearborn St. Rock phosphate.

Evanston, Ill.—RUHM PHOSPHATE & CHEMICAL CO., 1585 Maple Ave. Phosphate.

New York 7, N. Y.—AMERICAN AGRICULTURAL CHEMICAL CO., 50 Church St.

New York 20, N. Y.—AMERICAN CYANAMID CO., agricultural chemical div., 30 Rockefeller Plaza.

Richmond, Va.—VIRGINIA-CAROLINA CHEMICAL CORP., 401 E. Main St. Plant at Dubuque, Iowa. "V-C" fertilizers.

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Cedar Rapids, Iowa—J. C. KINTZ CO., 719 5th St. SE. Filter papers.

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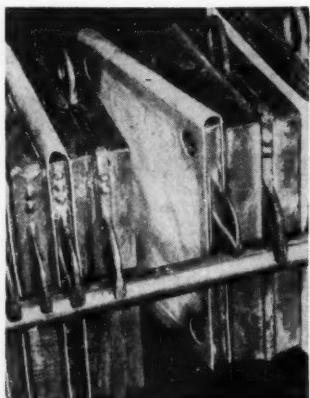
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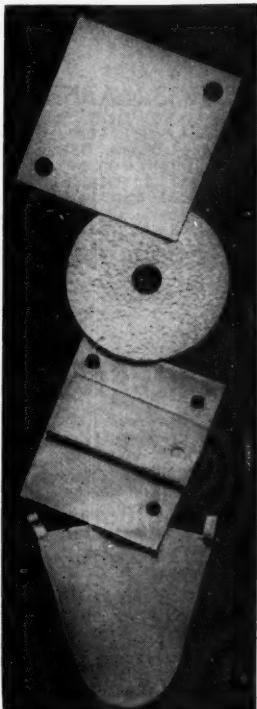
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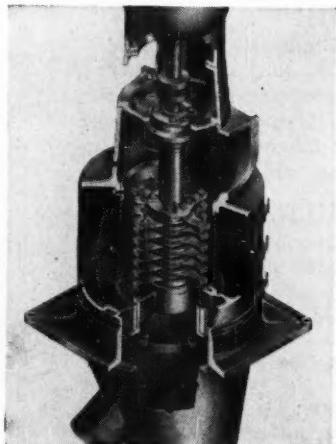
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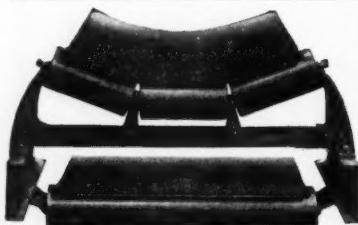
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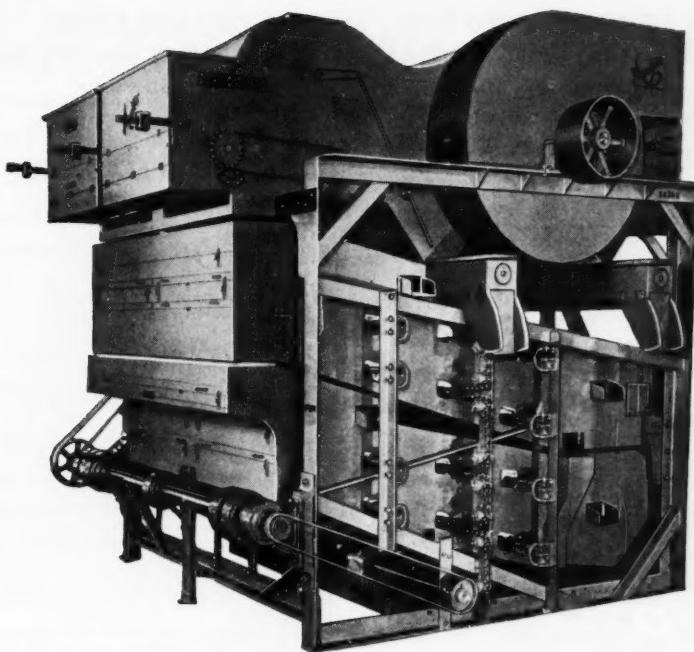
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The Super 228-D Clipper is especially adapted for Soybean processing . . . a fast high capacity economical cleaner for aspirating, scalping and sifting beans . . . Up to 1200 bushels per hour cleaning for market or prior to storage.

The 228-D has a unique screen arrangement of 2 variable pitch screens utilizing the full screen area, with resultant increased screening efficiency and ultimate capacity.

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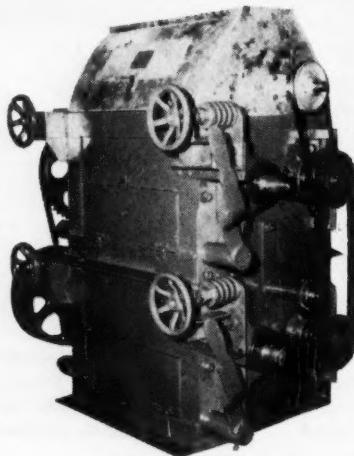
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Davis-Built Roller Mills Last Long, Cost Far Less

Built for years of hard service, Davis 2- and 3-pair high roller mills are priced far under the market. Compact sections easily bolt one on top of the other. Each unit can be furnished with one or more pairs of rolls, each pair corrugated to exact specifications. Roll sizes available are 9x10", 9x18", 9x24", 9x30", 9x36", 12x18", and 12x30", all equipped with super-duty roller bearings. Davis-Built Roller Mills include all the features of top-quality roller mill design. Write today for full information and prices.

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Dept. SG1, Bonner Springs, Kans.
Established 1894

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Bonner Springs, Kans.—**H. C. DAVIS SONS' MILL MACHINERY CO.**, Dept. SG1. Roller mills.

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Detroit 7, Mich.—LAUHOFF ROLLER MILLS WORKS, INC., 231-241 Chene St. "Flakmaster" flaking mills.

Minneapolis 14, Minn.—JACOBSON MACHINE WORKS, 1094 10th Ave. SE. Hammermills.

Minneapolis 15, Minn.—SCHULZ-O'NEILL CO., 307 Portland Ave. Pulverizers.

St. Paul 4, Minn.—HAAKY MFG. CO., 513 Vandalia St. Dehulling equipment.

St. Paul 8, Minn.—**PAPER CALMENSON & CO.**, County Rd. B. and Walnut Sts. Pulverizing mill hammers and associated parts.

Kansas City, Mo.—GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Concentrate and batch mixers.

St. Louis 6, Mo.—GRUENDLER CRUSHER & PULVERIZER CO., 2915-2917 N. Market. Slow speed grinder for grinding of expeller cake. Fine grinder for fine flour, glue, plastics, chemical process and food industry.

St. Louis 6, Mo.—WILLIAMS PATENT CRUSHER & PULVERIZER CO., 2705 N. Broadway. "Meteor" grinders.

Buffalo 15, N. Y.—**SCHUTTE PULVERIZER CO.**, 27 Clyde Ave. Grinding and milling equipment.

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Marion, Ohio—**FAIRFIELD ENGINEERING CO.**, 324 Barnhart St. "Fairfield-Hughes" hammermill. "Fairfield-Haines" mixer.

Sidney, Ohio—**SHELBY MFG. CO.**, 219 E. Court St. Vertical mixers.

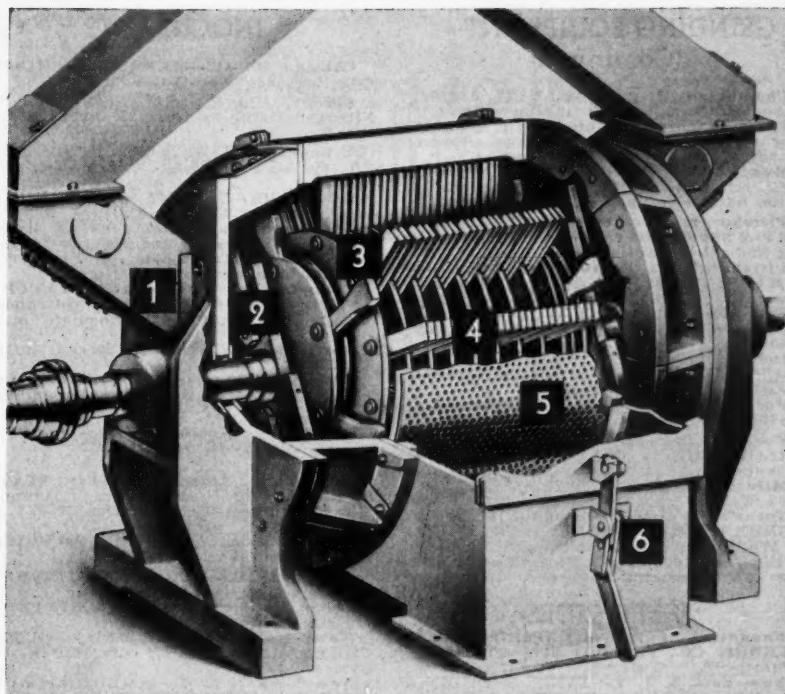
Sidney, Ohio—**SIDNEY GRAIN MACHINERY CO.**, 424 N. Main St. Hammermills and feed mixers.

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1. Standard or dual feeds
2. First reduction by breaker knives.
3. Second (crusher) reduction and peripheral feeding
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5. Final sizing by dual screens
6. Accessibility and ease of screen change

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PRATER PULVERIZERS

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Urbana, Ill.—HANSEN INOCULATOR CO., 808 N. Lincoln Ave. "Hansen's Inoculator."

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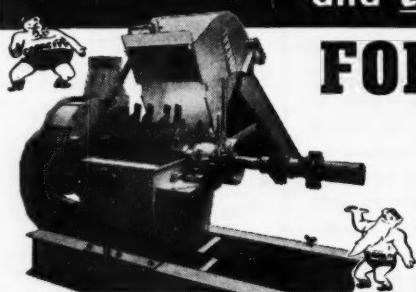
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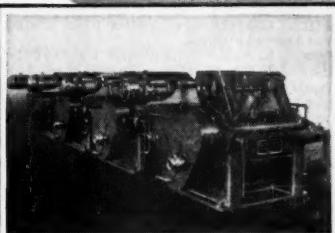
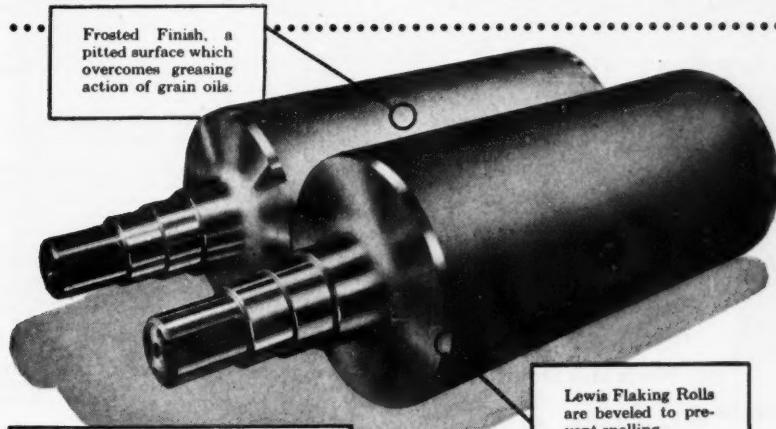
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Write for the new Bulletin No. 2267 describing Lewis Frosted Finish Flaking Rolls. It includes a specification blank for requesting prices.

EITHER install Lewis Flaking Mills with the New Frosted Finish Rolls that overcome greasing effect of grain oils and keep the grit moving continuously;

OR replace the rolls in your present flaking mills with Lewis New Frosted Finish rolls;

OR have Lewis recondition your present rolls with the New Frosted Finish.

NO MATTER which method you adopt, the New Lewis Frosted Finish improves passage of the grit and increases flake production.

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FROSTED FINISH
FLAKING ROLLS**

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Richmond, Va.—VIRGINIA - CAROLINA CHEMICAL CORP., 401 E. Main St. Plant at Dubuque, Iowa.

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Peoria, Ill.—PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St.

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Enterprise, Kans.—J. B. EHRSAM & SONS MFG. CO. Electric man-lifts.

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Omaha, Nebr.—RYAN CONSTRUCTION CO., 2606 Taylor St.

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Minneapolis, Minn.—R. R. HOWELL CO. Magnets, head drives, motors.

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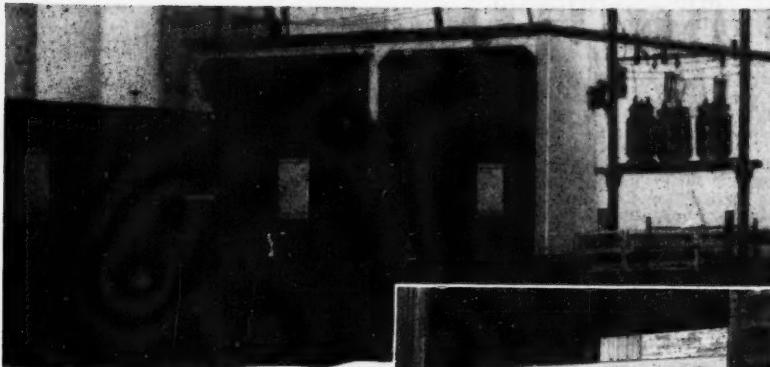
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For a demonstration of fast cooping, which saves soybean shippers' time, man power and money, write



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complete line of motor trucks.

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Cleveland 1, Ohio.—WHITE MOTOR CO., 842 E. 79th St. Also Sterling div., Milwaukee, Wis., and White Motor Co. of Canada Ltd. Manufacture "White Super Power," "White-Diesel Power" and "White 3000 Series" trucks.

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Evanston, Ill.—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

Hoopston, Ill.—FOOD MACHINERY & CHEMICAL CORP., canning machinery div. Labelers, boxers and filling machines—liquid, oil, viscous.

Cedar Rapids, Iowa.—BARNARD & LEAS MFG. CO., INC. All electric and line-shaft driven auger packers.

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Cedar Rapids, Iowa.—J. C. KINTZ CO., 719 5th St. SE.

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Minneapolis 8, Minn.—ALLOY HARD-FACING CO., 2837 2nd Ave. S. Manufacture and rebuild high production pellet mill rolls with a hardfacing alloy and slot them diagonally.

Muncy, Pa.—SPROUT, WALDRON & CO., INC.

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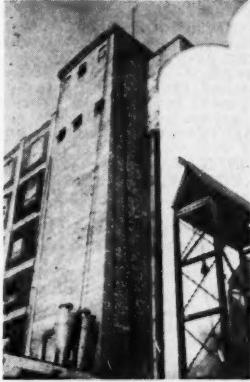
Aurora, Ill.—STEPHENS-ADAMSON MFG. CO. Also offices at Los Angeles, St. Louis, New York and Chicago. Plants at Aurora, Los Angeles and Belleville, Ont.

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On these two jobs, GLASTIC 100% Soybean Oil finishes were used. We have specialized in the use of Soybean Oil Special Elevator Finish. This GLASTIC FINISH was tested by Purdue University for the American Railroads and tested highest of 48 finishes for waterproofing.

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Inland Mills
Des Moines, Iowa

Inland Mills, Inc. of Des Moines, Iowa. Concrete and brick mill building and concrete tempering tanks were completely renovated. We furnished a pure bakelite varnish for coating the tempering tanks, and Glastic Special Elevator Finish on the storage tanks and Glastic Clear Tar Base Perma-Life on the Mill Pilasters. We call your attention to the huge amount of repairs that had to be done before waterproofing could be applied.



Standard Milling Co.
Kansas City, Kansas

FOR A COMPLETE QUOTATION AND PROPOSAL ON ANY WORK,
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POWER TRANSMISSION EQUIPMENT—(Continued)

Chicago 9, Ill.—LINK-BELT CO. Also at Indianapolis, Pittsburgh, Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Chains, sprockets, bearings, couplings, speed reducers, gearmotors, variable speed drives, backstops, V-belt and chain drives, etc.

Peoria, Ill.—PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Roller chain and sprockets; motors and controls; motor-reducers; pulleys, bearings; takeups.

Mishawaka, Ind.—DODGE MFG. CORP. District representatives and dealers in principal U. S. cities. Bearings; V-belt drives and sheaves; steel conveyor and split steel pulleys; torque-arm speed reducers; shaft couplings, both rigid and flexible; shaft collars; takeups.

Enterprise, Kans.—J. B. EHRSAM & SONS MFG. CO. Power transmission equipment, including pulleys, gears, plain and anti-friction bearings, shafting, clutches, sprockets, pillow blocks, V-belt sheaves, flexible and rigid couplings.

Minneapolis, Minn.—R. R. HOWELL CO. Power transmissions.

Columbus 16, Ohio—JEFFREY MFG. CO., 799 N. 4th St.

Oklahoma City, Okla.—SOUTHWESTERN SUPPLY & MACHINE WORKS, 6 E. Chickasaw St.

Philadelphia 20, Pa.—AMERICAN PULLEY CO., 4200 Wissahickon Ave. Speed reduction units, V-belt sheaves, V-belts, motor bases, adjustable-diameter sheaves, pulleys.

Philadelphia 34, Pa.—PHILADELPHIA GEAR WORKS, INC., Erie Ave. and G. St. Also operate Virginia Gear & Machine Co., Lynchburg, Va. All types of power transmission equipment including gears, speed reducers, valve controls, gearmotors, couplings.

Philadelphia 32, Pa.—SKF INDUSTRIES, INC., Front St. and Erie Ave. Other plants at Hornell, N. Y.; Shippensburg and Altoona, Pa. Manufacture ball and roller bearings; pillow blocks; steel, stainless and bronze balls.

Memphis, Tenn.—LEWIS SUPPLY CO., 477 S. Main St. Distribution of industrial supplies.

Memphis, Tenn.—TIPPS ENGINEERING & SUPPLY CO., INC., P. O. Box 213. All types of power transmission machinery for soybean storage and processing plants.

Fort Worth, Tex.—FORT WORTH STEEL & MACHINERY CO., 3600 McCart St. Offices in Chicago, St. Louis and Kansas City. V-belt drives and roller chain sprockets.

Houston, Tex.—HOUSTON BELTING & SUPPLY CO., 1717 Walker St.

PROCESSING EQUIPMENT

CONTINUOUS COUNTERCURRENT SOLVENT EXTRACTORS

Detroit 32, Mich.—DETREX CORP., P.O. Box 501, Roosevelt Park Annex. "Detrex" extractors.

Minneapolis 8, Minn.—ALLOY HARD-FACING CO., 2837 2nd Ave. S. Solvent shafts.

Minneapolis 13, Minn.—CROWN IRON WORKS CO., 1235 Tyler St. Non-explosive and non-flammable solvent plants.

St. Paul 1, Minn.—FUEL ECONOMY ENGINEERING CO., 510 New York Bldg. Engineering and construction of soybean solvent extraction plants.

East Orange, N. J.—OTTO H. YORK CO., INC., 69 Glenwood Place. Liquid-liquid extraction equipment for refining processes. Entrainment separators in solvent recovery equipment, vacuum distillation equipment, etc.

New York 17, N. Y.—PRODUCTION ENGINEERING CO., 420 Lexington Ave.

Cleveland 2, Ohio—V. D. ANDERSON CO., 1990 W. 96th St. Designers and fabricators of complete petroleum and non-flammable type solvent extraction plants and equipment.

Piqua, Ohio—FRENCH OIL MILL MANUFACTURY CO. Batch solvent extractors.

Pittsburgh, Pa.—BLAW-KNOX CO., P. O. Box 1198.

Milwaukee, Wis.—ALLIS-CHALMERS MFG. CO.

London-S. W. 8, England—BAMAG LTD., Rickett St., West Brompton.

CONTINUOUS SCREW PRESSES

Minneapolis 8, Minn.—ALLOY HARD-FACING CO., 2837 2nd Ave. S. Expeller shafts.

Cleveland 2, Ohio—V. D. ANDERSON CO., 1990 W. 96th St. Exclusive builder of "Expellers." Designers of complete oil mills.

Piqua, Ohio—FRENCH OIL MILL MANUFACTURY CO. Continuous screw presses.

Glen Riddle, Pa.—PITTOCK & ASSOCIATES. Anderson and French screw presses.

HYDRAULIC PRESSING EQUIPMENT

Atlanta, Ga.—DAVIDSON-KENNEDY CO., P. O. Box 97, Stn. D. Rolls and toasters.

D. J. Guillory

L. Pat Lobban

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Soybean Oil and Meal

Cotton Exchange Bldg.

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New York Produce Exchange
Memphis Merchants Exchange

PROCESSING EQUIPMENT —(Continued)

Dayton 1, Ohio — BUCKEYE IRON & BRASS WORKS, P.O. Box 883.

Piqua, Ohio — FRENCH OIL MILL MACHINERY CO.

MISCELLANEOUS

San Francisco 10, Calif. — ENTERPRISE ENGINE & MACHINERY CO., 18th and Florida Sts. Subsidiary of General Metals Corp. Foots press-free oil extraction from foots.

San Francisco 11, Calif. — MERCO CENTRIFUGAL CO., 150 Green St. Affiliate of Merrill Co., engineers. Manufacture industrial centrifuges used in separation processes.

Santa Rosa, Calif. — RIETZ MFG. CO., 150 Todd Rd. Manufacturers of equipment for food and chemical process industries. "Rietz" disintegrator; feed systems.

Chicago 50, Ill. — B. F. GUMP CO., 1309 S. Cleco Ave. Feeders.

Decatur 7, Ill. — BOWMAN WELDING & METAL WORKS, 501 E. North St. Expeller and oil mill parts.

East Moline, Ill. — TOLHURST CENTRIFUGALS DIV., American Machine & Metals, Inc. Centrifugal extractors.

Fort Lee, N. J. — BUHLER BROS., INC., 2121 Route 4. Machine importers and manufacturers of preparatory equipment for the extraction of oil.

New York 17, N. Y. — SCHWARZ LABORATORIES, INC., 202 E. 44th St. "Lipometer Fat Tester" for determination of oil content in meal, press cake, expeller cake.

Rochester 1, N. Y. — TAYLOR INSTRUMENT COS., 95 Ames St. Manufacture instruments for indicating, recording and controlling temperature, pressure, flow, density, load, liquid level and humidity.

Cleveland 2, Ohio — V. D. ANDERSON CO., 1990 W. 96th St. Coolers, screening tanks, flakers, steam traps, atmospheric and pressure meal toasters, distillation systems, filters, steam, gas, air and vapor purifiers, special fabricated equipment.

Erie, Pa. — ERIEZ MFG. CO. Permanent non-electric magnets, magnetic non-electric separators and electronic metal detectors.

Glen Riddle, Pa. — PITTOCK & ASSOCIATES. Used and rebuilt oil mill equipment.

Homer City, Pa. — SYNTRON CO., 466 Lexington. Also plant at Blairsville, Pa. Electric vibrators for bins, hoppers and chutes; vibratory feeders for controlling the flow of materials.

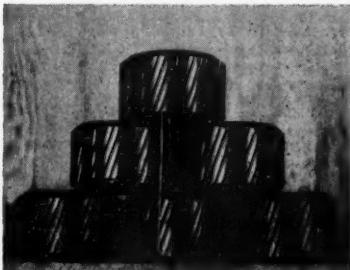
Mertztown, Pa. — ATLAS MINERAL PRODUCTS CO. Also at Houston, Tex. Coatings, linings, cements and jointing materials resistant to soybean oil; solvents, alkalies and acids employed in the soybean industry.

Oreland, Pa. — ACME COPPERSMITHING & MACHINE CO. Distillation equipment. Drying ovens (with solvent recovery apparatus).

Philadelphia, Pa. — MINNEAPOLIS HONEYWELL REGULATOR CO., 5060 Wayne Ave. Design and fabrication of automatic control instruments and complete process control systems.

Warren, Pa. — STRUTHERS WELLS CORP. Solvent recovery. Solvent removal.

For a superior job, call ALLOY



Rebuilt pellet rolls ready for installation.

We rebuild pellet rolls by automatic welding. We slot diagonally instead of straight across. This reduces the friction on the inner surface of the roll and gives more uniform wear on the dies. It also increases the life 3 to 1 over new rolls. It increases production more than 30 per cent by giving less down time and more production.

Most large feed processors use these rebuilt rolls on their machines. All major mills in the Twin Cities are using them at the present time.

We also rebuild pellet shafts, hammermill fans, expeller shafts and cutter knives. Call ALLOY for faster and better hardfacing service.

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Complete Hardfacing Service

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PROCESSING EQUIPMENT (Continued)

Brookings, S. D. — AMES POWERCOUNT CO. Design and manufacture special equipment for research or other purposes.

Fort Worth, Tex. — V. A. LESSOR & CO., P. O. Box 108. Used oil mill equipment.

Milwaukee, Wis. — ALLIS-CHALMERS MFG. CO. Solvent recovery apparatus (distillation).

PUMPS

Fresno, Calif. — VALLEY FOUNDRY & MACHINE WORKS, INC., 710-734 H. St. Pumps—centrifugal and rotary in stainless steel and bronze.

Cedar Falls, Iowa — VIKING PUMP CO. Rotary pumps for handling soybean oils and solvents.

Warren, Mass. — WARREN STEAM PUMP CO., INC., Bridges Ave. "Warren" and "Warren-Quimby" centrifugal, reciprocating and rotary-type pumping machinery.

Grand Rapids 9, Mich. — BLACKMER PUMP CO.

Minneapolis 13, Minn. — JEROME SIMER CO., 422 Stinson Blvd. Paddle pumps used as transfer pumps.

Brooklyn 1, N. Y. — FOSTER PUMP WORKS, INC., 51-A Washington St. Soybean oil pumps; solvent pumps, foot pumps used in deodorizing, hydrogenating and fractionating processes.

REFINING EQUIPMENT —Edible Oils

BLEACHING AND FILTERING

Los Angeles 17, Calif. — DICALITE DIVISION, Great Lakes Carbon Corp. Other offices at 333 N. Michigan Ave., Chicago 1, Ill.; 18 E. 48th St., New York 17, N. Y. Manufacture diatomaceous earth filter aids for filtration of soybean oil or any other liquid or liquor concerned in processing soy products.

Los Angeles 17, Calif. — FILTROL CORP., 727 W. 7th St. Plants at Vernon, Calif.; Jackson, Miss.; Salt Lake City, Utah. Activated adsorbents, decolorizing adsorbents, desiccants, activated bleaching clays, activated bleaching earths.

Chicago, Ill. — SIECK & DRUCKER, INC., 9 S. Clinton St. Bleaching installations.

Chicago 15, Ill. — WURSTER & SANGER, INC., 1337 E. 52nd St. Bleaching installations.

Louisville 1, Ky. — GIRDLER CORP. Continuous vacuum bleaching plants.

Morristown, N. J. — ALAN PORTER LEE ASSOCIATES, 19 South St. Bleaching installations.

New York, N. Y. — DARCO DEPT., ATLAS POWDER CO., 60 E. 42nd St. Activated carbons. Purifying.

New York 17, N. Y. — INDUSTRIAL CHEMICAL SALES, 230 Park Ave., div. of West Virginia Pulp & Paper Co. Offices at 35 E. Wacker Drive, Chicago 1, Ill.; 748 Public Ledger Bldg., Philadelphia 6, Pa.; 844 Leader Bldg., Cleveland 14, Ohio. Bleaching agents, filter aids.

New York 6, N. Y. — INNIS, SPEIDEN & CO., INC., 117 Liberty St. Activated and inactivated decolorizing clay.

New York 16, N. Y. — JOHNS-MANVILLE, 22 E. 40th St. Celite (diatomaceous earth). Filter aids.

New York 38, N. Y. — L. A. SALOMON & BRO., 216 Pearl St. Bleaching agents, filter aids.

Pittsburgh, Pa. — BRAW-KNOX CONSTRUCTION CO., chemical plants div.

Naugatuck, Tex. — BENNETT-CLARK CO., INC., P.O. Box 951. Bleaching and filtering clays.

COMPLETE PLANTS

Chicago, Ill. — WURSTER & SANGER, INC., 1337 E. 52nd St. Complete equipment and engineering services for processing soybean oils.

Louisville 1, Ky. — GIRDLER CORP., voter div., 224 E. Broadway. Complete oil processing plants.

Poughkeepsie, N. Y. — DE LAVAL SEPARATOR CO. Affiliate of De Laval Steam Turbine Co. Office also at 427 Randolph St., Chicago 6, Ill. Plant at Poughkeepsie, N. Y.

Pittsburgh, Pa. — BRAW-KNOX CONSTRUCTION CO., chemical plants div. Complete process plants for the fatty oil industry.

London - S. W. 6, England — BAMAG LTD., Rickett St. West Brompton. Complete plant for solvent extracting, hydrogenation and deodorizing soybean oils; machinery for recovering and concentrating lecithin.

DEGUMMING

Poughkeepsie, N. Y. — DE LAVAL SEPARATOR CO. Affiliate of De Laval Steam Turbine Co. Office also at 427 Randolph St., Chicago 6, Ill.

Cleveland, Ohio — NATIONAL ACME CO., 170 E. 131st St.

Philadelphia 40, Pa. — SHARPLES CORP., 2300 Westmoreland St.

Pittsburgh, Pa. — BRAW-KNOX CONSTRUCTION CO., chemical plants div.

DEODORIZATION

Chicago, Ill. — SIECK & DRUCKER, INC., 9 S. Clinton St. High vacuum deodorizers.

Chicago 15, Ill. — WURSTER & SANGER, INC., 1337 E. 52nd St. Batch and continuous.

Rockford, Ill. — ECLIPSE FUEL ENGINEERING CO., 1156 Buchanan St. Dowtherm heating systems.

Louisville 1, Ky. — GIRDLER CORP. Voter semi-continuous deodorization plants.

Hyde Park, Mass. — S. D. HICKS & SON CO., 1671 Hyde Park Ave. Batch installations.

Morristown, N. J. — ALAN PORTER LEE ASSOCIATES, 19 South St. Batch and continuous.

New York 6, N. Y. — FOSTER WHEELER CORP., 165 Broadway. Batch and continuous installations. Dowtherm systems.

Poughkeepsie, N. Y. — DE LAVAL SEPARATOR CO. Affiliate of De Laval Steam Turbine Co. Office also at 427 Randolph St., Chicago 6, Ill.

Oreland, Pa. — ACME COPPERSMITHING & MACHINE CO. Deodorizers.

Pittsburgh, Pa. — BRAW-KNOX CONSTRUCTION CO., chemical plants div. Batch installations. Dowtherm heating systems.

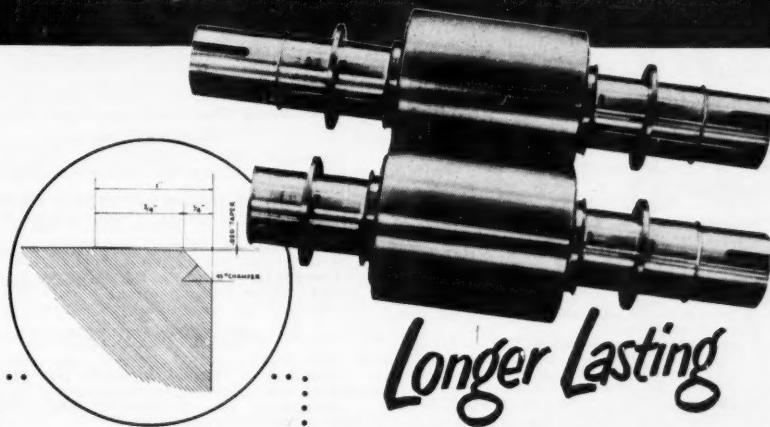
Warren, Pa. — STRUTHERS WELLS CORP. Batch and continuous deodorizers. Heaters and coolers.

FRACTIONATION

Chicago, Ill. — ARMOUR CHEMICAL DIVISION, 1355 W. 31st St. Plant also at P. O. Box 190, LaGrange, Ill.

SOYBEAN BLUE BOOK

Continental MILLING AND OIL EXTRACTION ROLLS



Cross section of a typical end-relief. Good practice recommends a $\frac{1}{4}''$ x 45 deg. chamfer on the end of the roll body combined with a ground relief of a few thousandths of an inch extending in to the limit of the roll surface. This further assists in eliminating end-spalling arising from unequal pressure on the roll ends.

Longer Lasting

Continental Rolls are made of special alloy chilled iron compositions—developed to provide extreme hardness and wear resistance. Both Cromonite and Crasfloy Rolls serve from 2 to 4 times as long as plain carbon chilled iron rolls before redressing is required. Service life usually is at least doubled.

CRASFLOY ROLLS—recommended for all services where surface spalling has been a problem with ordinary rolls.

CROMONITE ROLLS—for service where spalling has not been a troublesome factor but where increased wear resistance is desirable.



EAST CHICAGO, IND. • PITTSBURGH, PA.
Plants at
E. Chicago, Ind. • Wheeling, W. Va.
Pittsburgh, Pa.



REFINING EQUIPMENT —Edible Oils—(Continued)

Cincinnati 2, Ohio — EMERY INDUSTRIES, INC., 4206 Carew Tower. Manufacture "Emery 610" distilled soya fatty acid. "Plastolein 9815" double distilled liquid fatty acid. "Emersol" process for separation of liquid and solid components of soya fatty acids. Fractionation by selective solvent crystallization.

HYDROGENATION

Atlanta, Ga. — W. F. H. SCHULTZ, INC., 3232 Roswell Rd. N.W. Hydrogen and nitrogen production and storage.

Chicago, Ill. — SIECK & DRUCKER, INC., 9 S. Clinton St. Hydrogenators, hydrogen production and storage.

Chicago 15, Ill. — WURSTER & SANGER, INC., 1337 E. 52nd St. Hydrogenators, hydrogen production, storage.

Louisville 1, Ky. — GIRDLER CORP. "Hygirtol" hydrogen manufacturing plants.

Morristown, N. J. — ALAN PORTER LEE ASSOCIATES, 19 South St. Hydrogenators.

New York 6, N. Y. — FOSTER WHEELER CORP., 165 Broadway. Hydrogenators.

Poughkeepsie, N. Y. — DE LAVAL SEPARATOR CO. Affiliate of De Laval Steam Turbine Co. Offices also at 427 Randolph St., Chicago 6, Ill. Plant at Poughkeepsie, N.Y.

Emmaus, Pa. — AIR PRODUCTS, INC. Manufacturers of electrolyte cells for production of hydrogen.

Philadelphia 4, Pa. — ELECTRIC HEATING EQUIPMENT CO., 32nd and Ludlow Sts. Manufacturers of complete hydrogen producing plants for oil hardening.

Pittsburgh, Pa. — BLAW-KNOX CONSTRUCTION CO., chemical plants div.

Warren, Pa. — STRUTHERS WELLS CORP. Hydrogenators.

MARGARINE

Louisville 1, Ky. — GIRDLER CORP. Complete margarine plants. Margarine manufacturing apparatus.

Saginaw, Mich. — BAKER - PERKINS, INC., chemical machinery div. Mixing equipment, centrifugals.

Sandusky, Ohio — THERMAL MACHINERY CO. Mixing and chilling equipment.

Pittsburgh, Pa. — BLAW-KNOX CONSTRUCTION CO., chemical plants div.

MISCELLANEOUS

Fresno, Calif. — VALLEY FOUNDRY & MACHINE WORKS, INC., 2718 East Ave. Stainless steel tanks. Special equipment made to order.

Los Angeles 64, Calif. — CLARKSTAN CORP., 11921 W. Pico Blvd. Melting point meter for oils, waxes, resins.

South Pasadena, Calif. — BECKMAN INSTRUMENTS, INC., 820 Mission St. "Beckman Spectrophotometers" for chemical analysis of soybean oil.

Decatur, Ill. — LEADER IRON WORKS, INC., 2156 N. Jasper St. Tanks, kettles, condensers and heat exchangers.

Maywood, Ill. — COLEMAN INSTRUMENTS, INC., 318 Madison St. Manufacture "Coleman Model 6B Spectrophotometer" for evaluation of vegetable oil color.

Morristown, N. J. — ALAN PORTER LEE ASSOCIATES, 19 South St.

New York 1, N. Y. — HEYDEN CHEMICAL CORP., 393 7th Ave. Manufacturers of chemicals including "Propyl Gallate," an antioxidant for the inhibition of rancidity in soybean oil and related products.

Poughkeepsie, N. Y. — DE LAVAL SEPARATOR CO. Affiliate of De Laval Steam Turbine Co. Office also at 427 Randolph St., Chicago 6, Ill. Winterizing; also miscella clarifiers and protein concentrators; centrifugal separators.

Oreland, Pa. — ACME COPPERSMITHING & MACHINE CO.

NEUTRALIZATION

Chicago, Ill. — SIECK & DRUCKER, INC., 9 S. Clinton St. Kettle refining.

Chicago 15, Ill. — WURSTER & SANGER, INC., 1337 E. 52nd St. Kettle and continuous refining.

Poughkeepsie, N. Y. — DE LAVAL SEPARATOR CO. Affiliate of De Laval Steam Turbine Co. Office also at 427 Randolph St., Chicago 6, Ill. Continuous refining.

Cleveland, Ohio — NATIONAL ACME CO., 170 E. 131st St. Continuous refining.

Philadelphia 40, Pa. — SHARPES CORP., 2300 Westmoreland St. Continuous refining.

Pittsburgh, Pa. — BLAW-KNOX CONSTRUCTION CO., chemical plants div.

SHORTENING

Chicago, Ill. — SIECK & DRUCKER, INC., 9 S. Clinton St. Chilling and plasticizing.

Chicago 15, Ill. — WURSTER & SANGER, INC., 1337 E. 52nd St. Chilling and plasticizing.

Louisville 1, Ky. — GIRDLER CORP. Chilling and plasticizing apparatus.

Pittsburgh, Pa. — BLAW-KNOX CONSTRUCTION CO., chemical plants div.

RESPIRATORS

Chicago 6, Ill. — SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

Evanston, Ill. — BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

RESURFACING MATERIAL

Des Moines 9, Iowa — TUFCRETE CO., INC., 519 Teachout Bldg. "Tufcrete" resurfacer for all types of floors. "Tufdense" concrete floor hardener. "Tuftop" concrete floor surface treatment.

SCALES

Chicago 50, Ill. — B. F. GUMP CO., 1309 S. Cicero Ave. Automatic weighers.

Chicago 6, Ill. — SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

Evanston, Ill. — BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

Cedar Rapids, Iowa — J. C. KINTZ CO., 719 5th St. S.E. Bag scales.

Minneapolis, Minn. — R. R. HOWELL CO.

Kansas City, Mo. — AMERICAN SCALE CO., 810 Waldheim Bldg., 6 E. 11th St. Plant at Pleasant Hill. Portable platform and truck scales; vises.

Webb City, Mo. — WEBB CORP., 402 Broadway. Manufacture truck and warehouse scales; railroad track scales.

Clifton, N. J. — RICHARDSON SCALE CO., 668 Van Houten Ave. Automatic weighing, sacking and proportioning equipment.

Brooklyn, N. Y. — DETECTO SCALES, INC., 540 Park Ave. Manufacture retail store and industrial scales.

Buffalo, N. Y. — BUFFALO SCALE CO., INC., 46 Letchworth St. Manufacture industrial scales.

New York 14, N. Y. — AUTOMATIC SCALE CO., INC., 585 Hudson St. Automatic weighing and bagging machinery.

For Fast Accurate Sacking and Weighing of Soybean Products . . .

Soybean processors have more efficient heavy packaging today than ever before and this is especially true of meal and cake products. Bags are more uniform . . . production lines well planned . . . sacking operations well fitted to the operation. Close checkweighing is considered very important. In fact the EXACT WEIGHT Scale (illustrated) is the result of requests from the field for equipment for closer cost control in soybean packaging as well as other feed operations. This equipment has been built to exacting specifications for dependability, adaptability, simple construction, speed of operation, ruggedness and accuracy. Oil mill Supt's using this scale say it stops packaging "leak" . . . is the answer to more uniform bags, faster operation, less labor costs, and more volume. Write for full details covering EXACT WEIGHT Sacking Scales as well as heavy duty checkweighing units.



"Sales and
Service
from
Coast
to
Coast"

EXACT WEIGHT SCALES
Industrial Precision
THE EXACT WEIGHT SCALE COMPANY

950 W. Fifth Ave., Columbus 8, Ohio
2920 Bloor St., W • Toronto 18, Can.

SCALES—(Continued)

Silver Creek, N. Y.—S. HOWES CO., INC. Sacking scales and weighers.

Columbus 7, Ohio—BONDED SCALE & MACHINE CO., 2176 S. 3rd St. Motor truck, warehouse, and industrial scales.

Columbus 8, Ohio—EXACT WEIGHT SCALE CO., 950 W. 5th Ave. Also Dept. AM, 2920 Bloor St. W., Toronto 18, Ontario, Canada. Sacking scales; counter scales for packaging and automatic filling; balances; checkweighing equipment.

Sidney, Ohio—SIDNEY GRAIN MANUFACTERY CO., 424 N. Main St.

Rutland, Vt.—HOWE SCALE CO.

SEED PROTECTANTS

Naugatuck, Conn.—UNITED STATES RUBBER CO., chemical div. "Phygon" seed protectant, "Phygon" paste, "Phygon" naugts, "Spergon," "Spergon-DDT," "Spergon-SL," "Spergon-DDT-SL," "Phygon-XL-DDT."

Wilmington, Del.—E. I. du PONT de Nemours & Co., Inc., agricultural promotion div. "Arasan" seed disinfectant.

Westerville, Ohio—J. W. HANCE MFG. CO. Seed treating equipment. (Fungus diseases.)

SHEET METAL, SPOUTING

Denver 17, Colo.—GATES RUBBER CO., 999 S. Broadway. Conveyor spouting.

Chicago 6, Ill.—SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

Chicago 4, Ill.—B. I. WELLER CO., 327 S. La Salle St. Sheet metal work. Elevator legs, spouting.

Evanston, Ill.—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

Kewanee, Ill.—KEWANEE MACHINERY & CONVEYOR CO. Renewable bottom-grain spouts. Flexible grain spouts.

Hammond, Ind.—SCREW CONVEYOR CORP., 757 Hoffman St.

Cedar Rapids, Iowa—J. C. KINTZ CO., 719 5th St. SE.

Minneapolis 13, Minn.—DAY CO., 810 3rd Ave. NE. Spouting and other sheet steel and alloy products for food processing industries.

Minneapolis, Minn.—R. R. HOWELL CO. Steel spouting.

Kansas City, Mo.—GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Complete sheet metal service.

Kansas City 8, Mo.—W. C. WIEDENMANN & SON, INC., 1820-1824 Harrison St. General sheet metal contracting.

Westerville, Ohio—J. W. HANCE MFG. CO. Flexible grain pipe and swivel grain spouts.

Bangor, Pa.—GODSHALK SHEET METAL FABRICATORS, N. Main St. Spouts and miscellaneous fabrication.

SIFTERS

Chicago 50, Ill.—B. F. GUMP CO., 1309 S. Cicero Ave.

Fort Scott, Kans.—NOR-VELL INC.

Minneapolis 15, Minn.—SCHUTZ-O'NEILL CO., 307 Portland Ave.

Silver Creek, N. Y.—S. HOWES CO., INC. Cincinnati 22, Ohio—J. H. DAY CO.

INC. "Day" sifter and mixer, mixer agitators, "Day Roball" gyrating sifters.

Cincinnati 23, Ohio—ORVILLE SIMPSON CO., 1230 Knowlton St.

SOLVENTS

Chillicothe 1, Ill.—AMERICAN MINERAL SPIRITS CO., 230 N. Michigan Ave. "Amso" hexane, heptane and a complete line of extraction solvents.

Detroit 32, Mich.—DETREX CORP., P. O. Box 501, Roosevelt Park Annex. "Triad-E" non-flammable safety solvent for oil extraction.

Detroit 26, Mich.—PENOLA OIL CO. Penobscot Bldg. "Penola" hexane, "Penola" heptane, "Penola" octane and various extraction solvents.

Kansas City, Mo.—SKELLY OIL CO., solvents div., Skelly Bldg.

St. Louis 10, Mo.—R. J. BROWN CO., 1418 Wittenberg Ave. "Bronoco" extraction solvents, hexane and heptane.

New York, N. Y.—ESSO STANDARD OIL CO., 15 W. 51st St. Div. offices, Union Ave. at Bellevue, Memphis, Tenn.; 1410 Canal St., P. O. Box 1250, New Orleans 16, La. "Esso" hexane, "Esso" heptane, "Esso" octane and various wide cut extraction solvents.

Bartlesville, Okla.—PHILLIPS PETROLEUM CO., special products dept. "Phillips 66" extraction solvents, including hexane and heptane.

SOYBEAN STORAGE

ELEVATOR, PROCESSOR UNITS

Marion, Ill.—J. E. REESER CO. Concrete storage bins.

Fort Wayne, Ind.—FELTS & JACK CONSTRUCTION CO., INC., P. O. Box 926. Affiliate of Jack Construction Co., Inc., Kansas City, Kans. Concrete grain elevators, flour mills and feed plants.

Des Moines 9, Iowa—CORN STATES HYBRID SERVICE, 422 Court Ave. "Marietta" air-cell storage tanks.

Salina, Kans.—JOHNSON - SAMPSON CONSTRUCTION CO., INC., 624 S. Broadway. Builders of concrete elevators, feed mills and annex storages. Manufacturers of feed mill and elevator machinery.

Minneapolis, Minn.—HOGENSON CONSTRUCTION CO., 402 Corn Exch. Designers and builders of soybean storage and processing plants.

Kansas City, Mo.—BLACK, SIVALLS & BRYSON, INC., 7500 E. 12th.

Kansas City 3E, Mo.—BUTLER MFG. CO., 7497 E. 13th St. Also 997 6th Ave. SE., Minneapolis 14, Minn.

Kansas City, Mo.—COLUMBIAN STEEL TANK CO., P. O. Box B-4226. Bolted steel grain elevator tanks.

Kansas City, Mo.—MIDWEST STEEL PRODUCTS CO., Railway Exch. Bldg. Bolted storage, elevator-type bins.

Omaha 2, Nebr.—EATON METAL PRODUCTS CORP., 13th and Willis Ave. Also Kansas div. at Hutchinson. Special bean and oil storage tanks for processing plant.

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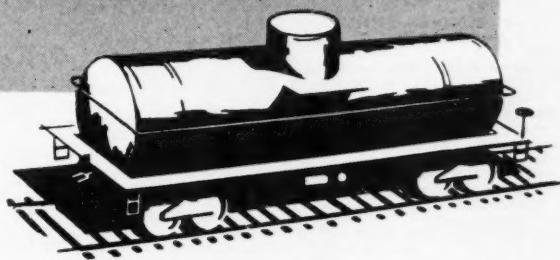
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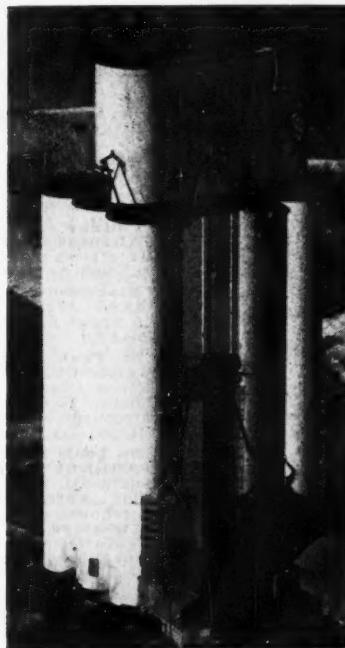
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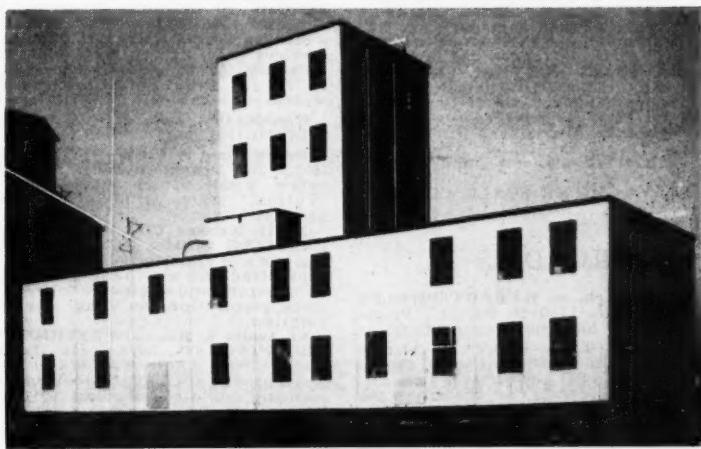
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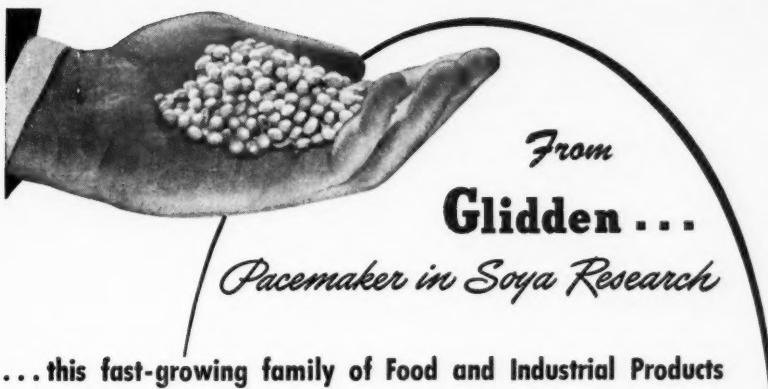
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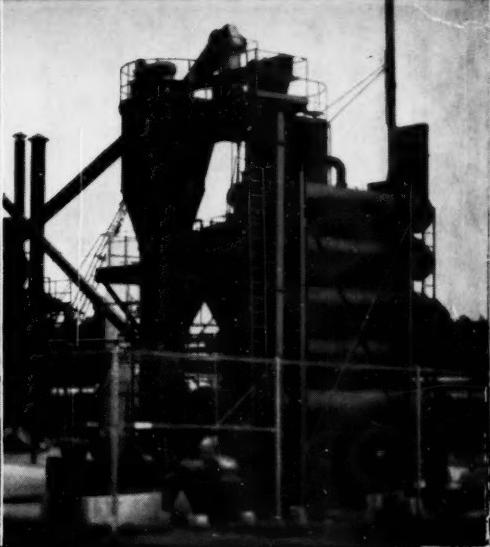
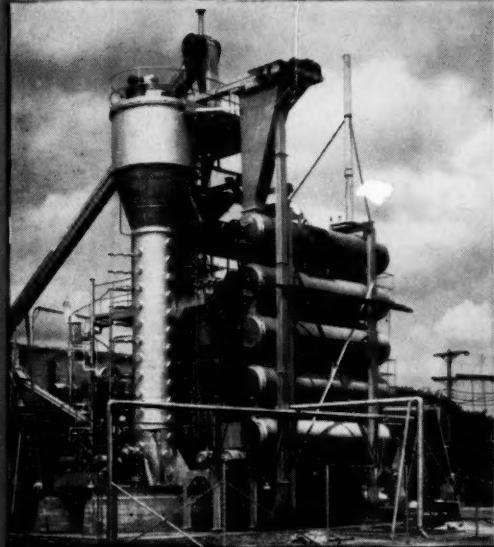


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